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File 347:JAPIO Nov 1976-2004/Sep(Updated 050204)
(c) 2005 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2005/Jan W05
(c) 2005 European Patent Office
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(c) 2005 WIPO/Univentio
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200509
(c) 2005 Thomson Derwent
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File 120:U.S. Copyrights 1978-2005/Feb 01
(c) format only 2005 The Dialog Corp.
File 426:LCMARC-Books 1968-2005/Feb W1
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(c) 2005 J. Whitaker & Sons Ltd.
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(c) 2005 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
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(c) 2005 American Economic Association
File 8: Ei Compendex(R) 1970-2005/Jan W3
(c) 2005 Elsevier Eng. Info. Inc.
File 6:NTIS 1964-2005/Jan W5
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(c) 2005 INIST/CNRS
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(c) 2005 Inst for Sci Info
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(c) 2005 British Education Index
File 111:TGG Natl.Newspaper Index(SM). 1979-2005/Feb 03
(c) 2005 The Gale Group
File 437:Education Abstracts 1983-2004/Nov
(c) 2005 The HW Wilson Co
File 438:Library Lit. & Info. Science 1984-2004/Nov
(c) 2005 The HW Wilson Co
File 9:Business & Industry(R) Jul/1994-2005/Feb 07
(c) 2005 The Gale Group
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(c) 2005 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2005/Feb 08
(c) 2005 The Gale Group
File 20:Dialog Global Reporter 1997-2005/Feb 08
(c) 2005 The Dialog Corp.
File 148:Gale Group Trade & Industry DB 1976-2005/Feb 07
(c)2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Feb 08
(c) 2005 The Gale Group

*Inventor
Search*

File 476: Financial Times Fulltext 1982-2005/Feb 08
 (c) 2005 Financial Times Ltd
 File 610: Business Wire 1999-2005/Feb 08
 (c) 2005 Business Wire.
 File 613: PR Newswire 1999-2005/Feb 08
 (c) 2005 PR Newswire Association Inc
 File 621: Gale Group New Prod. Annou. (R) 1985-2005/Feb 08
 (c) 2005 The Gale Group
 File 624: McGraw-Hill Publications 1985-2005/Feb 08
 (c) 2005 McGraw-Hill Co. Inc
 File 634: San Jose Mercury Jun 1985-2005/Feb 06
 (c) 2005 San Jose Mercury News
 File 636: Gale Group Newsletter DB(TM) 1987-2005/Feb 08
 (c) 2005 The Gale Group
 File 810: Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813: PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 267: Finance & Banking Newsletters 2005/Feb 07
 (c) 2005 The Dialog Corp.
 File 268: Banking Info Source 1981-2005/Jan W4
 (c) 2005 ProQuest Info&Learning
 File 625: American Banker Publications 1981-2005/Feb 08
 (c) 2005 American Banker
 File 626: Bond Buyer Full Text 1981-2005/Feb 08
 (c) 2005 Bond Buyer
 File 13: BAMP 2005/Jan W5
 (c) 2005 The Gale Group
 File 75: TGG Management Contents(R) 86-2005/Jan W5
 (c) 2005 The Gale Group
 File 990: NewsRoom Current Nov 1 -2005/Feb 08
 (c) 2005 The Dialog Corporation
 File 635: Business Dateline(R) 1985-2005/Feb 05
 (c) 2005 ProQuest Info&Learning
 File 647: CMP Computer Fulltext 1988-2005/Jan W4
 (c) 2005 CMP Media, LLC
 File 674: Computer News Fulltext 1989-2005/Jan W5
 (c) 2005 IDG Communications
 File 660: Federal News Service 1991-2002/Jul 02
 (c) 2002 Federal News Service
 File 98: General Sci Abs/Full-Text 1984-2004/Sep
 (c) 2004 The HW Wilson Co.
 File 570: Gale Group MARS(R) 1984-2005/Feb 08
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 File 369: New Scientist 1994-2005/Jan W4
 (c) 2005 Reed Business Information Ltd.
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 (c) 2005 FIZ TECHNIK
 File 553: Wilson Bus. Abs. FullText 1982-2004/Sep
 (c) 2004 The HW Wilson Co
 File 141: Readers Guide 1983-2004/Sep
 (c) 2004 The HW Wilson Co
 File 484: Periodical Abs Plustext 1986-2005/Jan W5
 (c) 2005 ProQuest

Set	Items	Description
S1	13	AU='DOUGHTY S'
S2	1	AU='DOUGHTY S G'
S3	6	AU='DOUGHTY S.'
S4	2	AU='DOUGHTY STEPHEN'
S5	3	AU='DOUGHTY STEVEN':AU='DOUGHTY STEVEN G'
S6	3	AU='DOUGHTY, S'
S7	39	AU='DOUGHTY, S.'
S8	4	AU='DOUGHTY, STEPHEN'
S9	11	AU='DOUGHTY, STEVE'
S10	8	AU='DOUGHTY, STEVE, 1973-':AU='DOUGHTY, STEVEN, 1960-'
S11	90	S1:S10
S12	3	S11 FROM 347,348,349,350,371
S13	3	IDPAT (sorted in duplicate/non-duplicate order)
S14	1	IDPAT (primary/non-duplicate records only)
S15	87	S11 NOT S12
S16	4	DEFINITION? ? OR VALUE? ? OR DATA() (ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S17	3	S15 AND S16
S18	2	RD (unique items)
S19	3	S14 OR S18

19/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013890203 **Image available**
WPI Acc No: 2001-374416/200139
XRPX Acc No: N01-273969

Financial service organization transaction processing method e.g. in
banks, involves storing processing relationship of each selected
parameter of object, in relational or object oriented database

Patent Assignee: COMPUTER SCI CORP (COMP-N)
Inventor: BOBBITT C P; DOUGHTY S G ; SHAW R J
Number of Countries: 094 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200133398	A2	20010510	WO 2000US29978	A	20001030	200139 B
AU 200113556	A	20010514	AU 200113556	A	20001030	200149
EP 1252580	A1	20021030	EP 2000975513	A	20001030	200279
			WO 2000US29978	A	20001030	

Priority Applications (No Type Date): US 2000699058 A 20001027; US 99162411
P 19991029; US 99162412 P 19991029; US 99162509 P 19991029; US 99162567 P
19991029; US 99162602 P 19991029; US 99162603 P 19991029; US 99162708 P
19991029; US 2000699015 A 20001027; US 2000699021 A 20001027; US
2000699036 A 20001027; US 2000699037 A 20001027; US 2000699038 A 20001027
; US 2000699054 A 20001027; US 2000699056 A 20001027

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200133398 A2 E 280 G06F-017/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200113556 A G06F-017/00 Based on patent WO 200133398

EP 1252580 A1 E G06F-017/00 Based on patent WO 200133398

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

...Inventor: DOUGHTY S G

19/3,K/2 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02892412 INSPEC Abstract Number: C87035618

Title: Fourier series for unevenly spaced data

Author(s): Doughty, S.

Author Affiliation: Wisconsin Univ., Platteville, WI, USA

Journal: Machine Design vol.59, no.3 p.220, 222

Publication Date: 12 Feb. 1987 Country of Publication: USA

CODEN: MADEAP ISSN: 0024-9114

U.S. Copyright Clearance Center Code: 0024-9114/87/\$1.00+.50

Language: English

Subfile: C

Author(s): Doughty, S.

...Abstract: each data group; and a recursion relation for the required
integer order sine and cosine values .

19/AA,AN,AZ,TI/1 (Item 1 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

013890203

WPI Acc No: 2001-374416/

Financial service organization transaction processing method e.g. in
banks, involves storing processing relationship of each selected
parameter of object, in relational or object oriented database

Local Applications (No Type Date): WO 2000US29978 A 20001030; AU 200113556
A 20001030; EP 2000975513 A 20001030; WO 2000US29978 A 20001030

Priority Applications (No Type Date): US 2000699058 A 20001027; US 99162411
P 19991029; US 99162412 P 19991029; US 99162509 P 19991029; US 99162567 P
19991029; US 99162602 P 19991029; US 99162603 P 19991029; US 99162708 P
19991029; US 2000699015 A 20001027; US 2000699021 A 20001027; US
2000699036 A 20001027; US 2000699037 A 20001027; US 2000699038 A 20001027
; US 2000699054 A 20001027; US 2000699056 A 20001027

19/AA,AN,AZ,TI/2 (Item 1 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

02892412 INSPEC Abstract Number: C87035618
Title: Fourier series for unevenly spaced data

19/AA,AN,AZ,TI/3 (Item 1 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

09997909 Supplier Number: 90433575
The end is nigh for Christianity warns bishop.

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File 347:JAPIO Nov 1976-2004/Sep(Updated 050204)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200509

(c) 2005 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	5507434	KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION - OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME- NTAL OR FUNDAMENTAL
S2	2349353	DEFINITION? ? OR VALUE? ? OR DATA() (ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S3	2622583	SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?- ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING - OR FIND???
S4	2268510	MASK OR TEMPLATE? ? OR RULE() (SET? ? OR BASE) OR RULESET? ? OR SET? ? (2W) RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR FRAMEWORK? ?
S5	224643	(TRANSACTION OR MULTIPLICATIVE) () (DATA OR INFORMATION) OR - DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D- ATA OR INFORMATION OR KNOWLEDGE) () (BASE? ? OR BANK? ? OR SET? ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6	200430	S1(5N)S2
S7	41003	S3(5N)S4
S8	55	S5(S)S6(S)S7
S9	352268	IC=(G06F-017? OR G06F-007?)
S10	33	S8 AND S9
S11	26	S5(10N)S6(10N)S7
S12	19	S9 AND S11

12/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

07901043 **Image available**
SEARCHING PROGRAM CREATING METHOD

PUB. NO.: 2004-013802 [JP 2004013802 A]
PUBLISHED: January 15, 2004 (20040115)
INVENTOR(s): TAMORI TAKASHI
ARAI KENJI
KIJIMA NORIKAZU
APPLICANT(s): HITACHI SOFTWARE ENG CO LTD
APPL. NO.: 2002-170112 [JP 2002170112]
FILED: June 11, 2002 (20020611)

INTL CLASS: G06F-009/44; G06F-017/30

ABSTRACT

...item correlation table storing the item correlation information composed of the data items in the **database** as a data acquirement **source** on each **data item** used in the **searching procedure**, a data storing part as a data storing address, and a data item name used...

12/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

07097642 **Image available**
CONTROL DATA STRUCTURE AND RETRIEVAL METHOD USING THE SAME

PUB. NO.: 2001-325298 [JP 2001325298 A]
PUBLISHED: November 22, 2001 (20011122)
INVENTOR(s): KAI HIROSHI
TEZUKA HIDEKI
APPLICANT(s): JEOL LTD
APPL. NO.: 2000-141335 [JP 2000141335]
FILED: May 15, 2000 (20000515)

INTL CLASS: G06F-017/30 ; G06F-012/00; H01J-037/24

ABSTRACT

... data structure in which data are easily generated, maintained and retrieved and to provide a **retrieval** method using the **structure**.

SOLUTION: Control data has the structure provided with a **data file** 23 where a plurality of actual **control data values** are arrayed, with a data card pat 22 where a plurality of cards are arranged...

12/3,K/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

05003409 **Image available**
DATA BASE INTEGRATION/RETRIEVAL DEVICE

PUB. NO.: 07-296009 [JP 7296009 A]
PUBLISHED: November 10, 1995 (19951110)
INVENTOR(s): SHIBA SATOSHI
NAGAHISA HIROTO
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-242675 [JP 94242675]

FILED: . October 06, 1994 (19941006)

INTL CLASS: G06F-017/30 ; G06F-012/00

ABSTRACT

... a data base retrieval connection means 25 which includes a step for deciding the retrieval **key** item based on a concrete **value** inputted to the initial retrieval card that is taken out from a **retrieval procedure** preservation means 7 preserving the **procedure** and a step for **searching** the designated **data base** from the retrieval **key** item and obtaining the concrete **value** of the output item of the designated retrieval card, which repeats them and outputs the...

12/3,K/9 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014703996 **Image available**
WPI Acc No: 2002-524700/200256
XRPX Acc No: N02-415557

Database system prepares mask table that stores access right with respect to each item in table stored in database

Patent Assignee: TOPPAN PRINTING CO LTD (TOPP)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002175217	A	20020621	JP 2000372314	A	20001207	200256 B

Priority Applications (No Type Date): JP 2000372314 A 20001207

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002175217	A	5	G06F-012/14	

Abstract (Basic):

... A process unit prepares a **mask** table that stores **access** right with respect to each item in a table stored in a **database** . When a user inputs user **code** , a **control** unit determines whether to permit the user to **access** the **database** , by referring the **mask** table.

...International Patent Class (Additional): G06F-017/30

12/3,K/10 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014584700
WPI Acc No: 2002-405404/200243
Related WPI Acc No: 2002-405397; 2002-405398
XRPX Acc No: N02-318265

Method of creating links between databases by selecting source data in a source database and searching for data matching the source data in a target database and on finding a match inserting a link from the source to the target

Patent Assignee: LION BIOSCIENCE AG (LION-N)
Inventor: CROFT D; RICHTER S
Number of Countries: 096 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200233587	A2	20020425	WO 2001EP11991	A	20011016	200243 B
AU 200193871	A	20020429	AU 200193871	A	20011016	200255
US 20030195888	A1	20031016	US 2000688174	A	20001016	200369
			US 2003425015	A	20030429	
EP 1364312	A2	20031126	EP 2001974337	A	20011016	200380

JP 2004514967 W 20040520 WO 2001EP11991 A 20011016 200434
JP 2002536905 A 20011016

Priority Applications (No Type Date): US 2000688174 A 20001016; US
2003425015 A 20030429

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200233587 A2 E 29 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL
PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200193871 A G06F-017/30 Based on patent WO 200233587

US 20030195888 A1 G06F-017/30 Cont of application US 2000688174

EP 1364312 A2 E G06F-017/30 Based on patent WO 200233587

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

JP 2004514967 W 50 G06F-017/30 Based on patent WO 200233587

Abstract (Basic):

... A **source data field** may be **selected** and a text extraction
rule is used to produce a list of terms which are used to search the
target **database**. A link inserted in the source database may indicate
the target database and the entry...

International Patent Class (Main): G06F-017/30

12/3,K/13 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

013450966 **Image available**

WPI Acc No: 2000-622909/200060

XRPX Acc No: N00-461715

Search procedure for object e.g. character row, involves searching
object with attribute value extracted corresponding to extracted
attribute value of key object, from database connected to network

Patent Assignee: SHARP KK (SHAF)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000250917	A	20000914	JP 9949394	A	19990226	200060 B

Priority Applications (No Type Date): JP 9949394 A 19990226

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2000250917 A 21 G06F-017/30

Search procedure for object e.g. character row, involves searching
object with attribute value extracted corresponding to extracted
attribute value of key object, from database connected to network

International Patent Class (Main): G06F-017/30

12/3,K/14 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013014974 **Image available**

WPI Acc No: 2000-186825/200017

XRPX Acc No: N00-138335

Record access key generation procedure in distributed database

system, involves forming record key having location number as first field and record number as second field

Patent Assignee: NEC SOFTWARE CHUGOKU LTD (NIDE)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000029886	A	20000128	JP 98194181	A	19980709	200017 B
JP 3251239	B2	20020128	JP 98194181	A	19980709	200214

Priority Applications (No Type Date): JP 98194181 A 19980709

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 2000029886	A		8	G06F-017/30	
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JP 3251239	B2		8	G06F-017/30	Previous Publ. patent JP 2000029886
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Record access key generation procedure in distributed database system, involves forming record key having location number as first field and record number as second field

International Patent Class (Main): G06F-017/30

12/3,K/15 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012360854 **Image available**

WPI Acc No: 1999-166961/199914

Related WPI Acc No: 1999-153243; 1999-214402; 2001-234122

XRPX Acc No: N99-121673

Query apparatus for database system

Patent Assignee: NOVELL INC (NOVE-N)

Inventor: BRADSHAW W B; DAVIS J R; HODGKINSON A A; JENSEN B L; PATHAKIS S W
; SANDERS D S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5873079	A	19990216	US 9626892	A	19960920	199914 B
			US 96749860	A	19961115	

Priority Applications (No Type Date): US 9626892 P 19960920; US 96749860 A 19961115

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 5873079	A		30	G06F-017/30	Provisional application US 9626892
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Abstract (Basic):

... A compound alternate key filtered index definition (102) containing a criterion for selecting arbitrarily structured records (84) of database is used to create a filter index which comprises keys (92) corresponding to selected records...

International Patent Class (Main): G06F-017/30

12/AA,AN,AZ,TI/1 (Item 1 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

07901043
SEARCHING PROGRAM CREATING METHOD

APPL. NO.: 2002-170112 [JP 2002170112]

12/AA,AN,AZ,TI/2 (Item 2 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

07205191
SYSTEM FOR PROVIDING RESERVATION RELATING INFORMATION

APPL. NO.: 2000-253429 [JP 2000253429]

12/AA,AN,AZ,TI/3 (Item 3 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

07097642
CONTROL DATA STRUCTURE AND RETRIEVAL METHOD USING THE SAME

APPL. NO.: 2000-141335 [JP 2000141335]

12/AA,AN,AZ,TI/4 (Item 4 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

05888684
DEVICE FOR PREPARING DOCUMENT

APPL. NO.: 08-326302 [JP 96326302]

12/AA,AN,AZ,TI/5 (Item 5 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

05003409
DATA BASE INTEGRATION/RETRIEVAL DEVICE

APPL. NO.: 06-242675 [JP 94242675]

12/AA,AN,AZ,TI/6 (Item 1 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

016273121
WPI Acc No: 2004-431015/
Database queries processing method for parallel processing system,
involves receiving query in query source code and compiling
executable query to process query by configured global-results
processing matrix
Local Applications (No Type Date): US 2002293483 A 20021114
Priority Applications (No Type Date): US 2002293483 A 20021114

12/AA,AN,AZ,TI/7 (Item 2 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

015598770
WPI Acc No: 2003-660925/
Users profile information location enabling method for databases,
involves storing compact definition of schema of external database and

data source information, and accessing profile information using stored information

Local Applications (No Type Date): US 200134440 A 20011226; AU 2002358301 A 20021226; EP 2002792540 A 20021226; WO 2002US41611 A 20021226
Priority Applications (No Type Date): US 200134440 A 20011226; US 200134442 A 20011226; US 200137805 A 20011226

12/AA,AN,AZ,TI/8 (Item 3 from file: 350)

DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

014719956

WPI Acc No: 2002-540660/

Database organizing method involves navigating hierarchical structure of nodes during search until conclusion set is reached and organizing structure, such that key information relating to node is inferred from node position

Local Applications (No Type Date): GB 200029238 A 20001130; WO 2001GB5242 A 20011128; AU 200222096 A 20011128; WO 2001GB5242 A 20011128; NO 20032416 A 20030527; EP 2001998908 A 20011128; WO 2001GB5242 A 20011128; WO 2001GB5242 A 20011128; US 2003432769 A 20030528; KR 2003707328 A 20030530; WO 2001GB5242 A 20011128; JP 2002547038 A 20011128
Priority Applications (No Type Date): GB 200029238 A 20001130

12/AA,AN,AZ,TI/9 (Item 4 from file: 350)

DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

014703996

WPI Acc No: 2002-524700/

Database system prepares mask table that stores access right with respect to each item in table stored in database

Local Applications (No Type Date): JP 2000372314 A 20001207
Priority Applications (No Type Date): JP 2000372314 A 20001207

12/AA,AN,AZ,TI/10 (Item 5 from file: 350)

DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

014584700

WPI Acc No: 2002-405404/

Method of creating links between databases by selecting source data in a source database and searching for data matching the source data in a target database and on finding a match inserting a link from the source to the target

Local Applications (No Type Date): WO 2001EP11991 A 20011016; AU 200193871 A 20011016; US 2000688174 A 20001016; US 2003425015 A 20030429; EP 2001974337 A 20011016; WO 2001EP11991 A 20011016; WO 2001EP11991 A 20011016; JP 2002536905 A 20011016
Priority Applications (No Type Date): US 2000688174 A 20001016; US 2003425015 A 20030429

12/AA,AN,AZ,TI/11 (Item 6 from file: 350)

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014116866

WPI Acc No: 2001-601078/

Database index accessing method for database management system, involves exploiting index using model having generalized pattern matching with user defined predicate to retrieve data from database

Local Applications (No Type Date): US 9752180 A 19970710; US 98112307 A 19980709
Priority Applications (No Type Date): US 9752180 P 19970710; US 98112307 A 19980709

12/AA,AN,AZ,TI/12 (Item 7 from file: 350)
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013514517

WPI Acc No: 2000-686463/

Database item versioning system for hand-held devices, has source code control system to store versions of item and mechanism to check in and check out the item

Local Applications (No Type Date): WO 2000US1472 A 20000121; AU 200034721 A 20000112; US 99235038 A 19990121; US 2004868111 A 20040615

Priority Applications (No Type Date): US 99235038 A 19990121; US 2004868111 A 20040615

12/AA,AN,AZ,TI/13 (Item 8 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

013450966

WPI Acc No: 2000-622909/

Search procedure for object e.g. character row, involves searching object with attribute value extracted corresponding to extracted attribute value of key object, from database connected to network

Local Applications (No Type Date): JP 9949394 A 19990226

Priority Applications (No Type Date): JP 9949394 A 19990226

12/AA,AN,AZ,TI/14 (Item 9 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

013014974

WPI Acc No: 2000-186825/

Record access key generation procedure in distributed database system, involves forming record key having location number as first field and record number as second field

Local Applications (No Type Date): JP 98194181 A 19980709; JP 98194181 A 19980709

Priority Applications (No Type Date): JP 98194181 A 19980709

12/AA,AN,AZ,TI/15 (Item 10 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

012360854

WPI Acc No: 1999-166961/

Query apparatus for database system

Local Applications (No Type Date): US 9626892 A 19960920; US 96749860 A 19961115

Priority Applications (No Type Date): US 9626892 P 19960920; US 96749860 A 19961115

12/AA,AN,AZ,TI/16 (Item 11 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

012347136

WPI Acc No: 1999-153243/

Hybrid query formulating and executing apparatus for heterogeneous database

Local Applications (No Type Date): US 9626892 A 19960920; US 96751540 A 19961115

Priority Applications (No Type Date): US 9626892 P 19960920; US 96751540 A 19961115

12/AA,AN,AZ,TI/17 (Item 12 from file: 350)
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010915515

WPI Acc No: 1996-412466/

Database processing system - has composite structure definition
control part which controls access to database composite structure
and has maintenance/ selection control part which access controls shared
and local processes

Local Applications (No Type Date): US 91745233 A 19910814; US 94360033 A
19941220

Priority Applications (No Type Date): JP 90231452 A 19900831; JP 90231446 A
19900831

12/AA,AN,AZ,TI/18 (Item 13 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

010849469

WPI Acc No: 1996-346422/

Data access control system for electronic conferencing - has setter that
facilitates right to access e.g. read-out right of conference participant
data and write-in right for every item

Local Applications (No Type Date): JP 95203462 A 19950809

Priority Applications (No Type Date): JP 94241729 A 19941006

12/AA,AN,AZ,TI/19 (Item 14 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

010536378

WPI Acc No: 1996-033332/

Relational database table display system - searches each line in table
with relational database reference part and displays value of each
sequence on display device in form of created output form

Local Applications (No Type Date): JP 9482583 A 19940329

Priority Applications (No Type Date): JP 9482583 A 19940329

?show files;ds

File 348:EUROPEAN PATENTS 1978-2005/Jan W05

(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20050203,UT=20050127

(c) 2005 WIPO/Univentio

Set	Items	Description
S1	1355342	KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION - OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME- NTAL OR FUNDAMENTAL
S2	1224723	DEFINITION? ? OR VALUE? ? OR DATA() (ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S3	1938453	SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?- ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING - OR FIND???
S4	1204602	MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE() (SET? ? OR BA- SE) OR RULESET? ? OR SET? ? (2W) RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F- FRAMEWORK? ?
S5	223454	(TRANSACTION OR MULTIPLICATIVE) () (DATA OR INFORMATION) OR - DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D- ATA OR INFORMATION OR KNOWLEDGE) () (BASE? ? OR BANK? ? OR SET? ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6	182709	S1(5N)S2
S7	133126	S3(5N)S4
S8	942	S5(S)S6(S)S7
S9	135743	S1(3N)S2
S10	100710	S3(3N)S4
S11	80	S5(10N)S9(10N)S10
S12	52840	IC=(G06F-017? OR G06F-007?)
S13	44	S11 AND S12
S14	55	S5(7N)S9(7N)S10
S15	29	S12 AND S14
S16	29	IDPAT (sorted in duplicate/non-duplicate order)
S17	29	IDPAT (primary/non-duplicate records only)

17/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01504244

DATA ACCESS MANAGEMENT SYSTEM AND MANAGEMENT METHOD USING ACCESS CONTROL
TICKET

DATENZUGRIFFSMANAGEMENTSYSTEM UND MANAGEMENTVERFAHREN MIT EINEM
ZUGRIFFSSTEUERTICKET

SYSTEME DE GESTION D'ACCES AUX DONNEES ET PROCEDE DE GESTION UTILISANT UN
BILLET DE COMMANDE D'ACCES

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1303075 A1 030416 (Basic)
WO 2002076013 020926

APPLICATION (CC, No, Date): EP 2002702791 020307; WO 2002JP2113 020307

PRIORITY (CC, No, Date): JP 200173353 010315

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-009/00; G09C-001/00; G06F-012/14;
G06F-015/00; G06F-017/60 ; G06F-019/00; G06F-017/00 ; G06K-019/00

ABSTRACT WORD COUNT: 137

NOTE:

Figure number on first page: 0001

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Available Text	Language	Update	Word Count
CLAIMS A	(English)	200316	8394
SPEC A	(English)	200316	79434
Total word count - document A			87828
Total word count - document B			0
Total word count - documents A + B			87828

...INTERNATIONAL PATENT CLASS: G06F-017/60 ...

... G06F-017/00

...SPECIFICATION the access unit, and allows data access on the condition
that authentication based on authentication **rules** indicated in the
access control ticket is successfully conducted, and that ID **data** of
the access unit indicated in the access control ticket is successfully
verified.

According to...

17/3,K/4 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01153716

Image available

SEMANTIC KNOWLEDGE RETRIEVAL MANAGEMENT AND PRESENTATION

SYSTEME ,ET PROCEDE POUR UNE EXTRACTION, UNE GESTION, UNE CAPTURE, UN
PARTAGE, UNE DECOUVERTE, UNE DISTRIBUTION ET UNE PRESENTATION DE
CONNAISSANCES SEMANTIQUES

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200475466 A2-A3 20040902 (WO 0475466)

Application: WO 2004US4674 20040217 (PCT/WO US04004674)

Priority Application: US 2003447736 20030214

Designated States:

(All protection types applied unless otherwise stated - for applications
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 160617

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... as additional arguments to the Web service and the Web service will
apply additional sub- **queries** appropriately to further **filter** the
query that is specified in the agent/request SQL' (in other words, the
SQL is passed as always, but in addition, the **filter** overrides and
additional **filters** are also passed).

A good case for filter-overrides will be for Best Bets. The...

17/3,K/6 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01055617 **Image available**

COMPARISON OF SOURCE FILES

COMPARAISON DE FICHIERS SOURCE

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200385552 A2-A3 20031016 (WO 0385552)

Application: WO 2003EP3698 20030409 (PCT/WO EP03003698)

Priority Application: DE 10215852 20020410; EP 200224709 20021106

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK
SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 4994

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... database 2 that has a multiplicity of data. This data can be extracted from the database with the help of Structured Query Language (SQL) queries. Original program source code 4A and revised program source code 4B work with database 2 with the help of the SQL queries. The processing times in programs 4 might...

Instant application

17/3,K/15 (Item 15 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00799831 **Image available**

BUSINESS TRANSACTION PROCESSING SYSTEMS AND METHODS

SYSTEMES ET PROCEDES DE TRAITEMENT DE TRANSACTIONS COMMERCIALES

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Austin, TX 78767-0398, US,

Patent and Priority Information (Country, Number, Date):

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Application: WO 2000US29978 20001030 (PCT/WO US0029978)

Priority Application: US 99162412 19991029; US 99162411 19991029; US

99162602 19991029; US 99162509 19991029; US 99162708 19991029; US

99162567 19991029; US 99162603 19991029; US 2000699036 20001027; US

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2000699037 20001027

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 77244

Detailed Description

... locating processing parameter values in a Financial Service Organization (FSO) computer system using pre-configured **key definitions**, **key values**, and **key value search masks**.

In one embodiment, data may be stored in tables in a **database**. In one embodiment, a **key definition** table, one or more process control data (PCD) tables for storing processing parameter values and...of Figure F-5; Figure F-7 illustrates one embodiment of a structure for a **database** table for storing **key definitions**; Figure F-8 illustrates one embodiment of a structure for a **database** table for referencing **search masks**; Figure F-9 illustrates one embodiment of a structure for a user-defined PCD table with **key values** and data **values**;

Figure F- 1 0 illustrates one embodiment of several PCD tables in an FSO system...

...of Figure G-8;

Figure G-10 illustrates one embodiment of a structure for a **database** table for storing **key definitions**; Figure G- 1 1 -illustrates one embodiment of a structure for a **database** table for referencing **search masks**; Figure G-12 illustrates one embodiment of a structure for a user-defined PCD table with **key values** and data **values**;

Figure G- 1 3 illustrates one embodiment of several PCD tables in an FSO system...of PCD table C 320 as described above may be repeated with the alternate processing **key value**.

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Program instructions 514 may use **key definition** 5 10 and **search mask** 524 to build a first **key value** 528 from data **element** values read from **database** 518 and transaction 502. Program instructions 514 may use the data elements in key definition...key building program 506, and a PCD program 512. The system may also include a **database** 518, a PCD **key definition** table 508, a **search mask** table 522, and a PCD table C 526. In one embodiment, **database** 518 may include customer account

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Figure F-3b illustrates one embodiment of building a...

...Figure F-3b, key building program 506 may include program instructions 514 for building a **key value**. Program instructions 514 may use **key definition** 510 and a second **search mask** 530 read from **search mask** table 522 to build a second **key value** 532 from data **element** values read from **database** 518 and transaction 502. Program instructions 514 may use the data elements in key definition...One embodiment of a PCD table search process in an FSO system may use the **search masks** in a **search mask** table to construct processing **key values** from a customer account **data set**. In one embodiment, the search process may start at the first **search mask** in the **search mask** table, build a processing **key value** from the customer

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Figure F-7 - One embodiment of a structure for a database...defined key definitions and search masks, there is one table 205 in an FSO system **database**. In one embodiment of an FSO system using userdefined **key definitions** and **search masks**, there is one row in table 205 for each PCD table in the FSO system...In search 1, the PCD table search process uses key definition 150 and the first **search mask** in **search mask** table 180 to construct processing **key values** for a fir st customer

account data set . In the first search mask , all mask values are set to the equal mask field value . A first processing key value is constructed using the first search mask .

Key element X is set to the value 12 read from the customer account data ...

...requesting process in the FSO system.

In search 2, the PCD table search process uses key definition 150 and the first search mask in search mask table 180 to construct processing key values for a second customer account data set . A first processing key value is constructed using the first search mask . Key element X is set to the value 12 read from the customer account data...

...12, MSC, Y). No
90
system.

In search 4, the PCD table search process uses key definition 150 and the first search mask in search mask table 180 to construct processing key values for a fourth customer account data set . A first processing key value is constructed using the first search mask . Key element X is set to the value 14 read from the customer account data...and equal mask field values. In one embodiment, an equal mask field value in a search mask field may specify that, when constructing a processing key value from data element values in the transaction data set and related databases, the key element value in the processing key value corresponding to the...equal mask field value in a mask field may specify that, when constructing a processing key value from the data element values in a customer account data set

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include search masks where all mask fields are set to wildcard mask field values.

Figure G- IO - One embodiment of a...

...an FSO system. A table 205 may include PCD table identifiers 206 and references to search mask tables 208. In one embodiment of an FSO system using user-defined key definitions and search masks , there is one table 205 in an FSO system database . In one embodiment of an FSO system using userdefined key definitions and search masks , there is one row in table 205 for each PCD table in the FSO system...data set in an FSO system.

In search 1, the PCD table search process uses key definition 150 and the first search mask in search mask table 180 to construct processing key values for a first customer account data set . In the first search mask , all mask values are set to the equal mask field value . A first processing key value is constructed using the first search mask .

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Key element X is set to the value 12 read from the customer account...

...In search 2, the PCD table search process uses key defiriftion 150 and the first search mask in search mask table 180 to construct processing key values for a second customer account data set . A first processing key value is constructed using the first search mask . Key element X is set to the value 12 read from the customer account data...

...requesting process in the FSO system.

In search 3, the PCD table search process uses key definition 150 and

the first **search mask** in **search mask** table 180 to construct processing **key values** for a third customer account **data set** . A first processing **key value** is constructed using the first **search mask** . Key element X is set to the value 12 read from the customer account data...requesting process in the FSO system.

In search 4, the PCD table search process uses **key definition** 150 and the first **search mask** in **search mask** table 180 to construct processing **key values** for a fourth customer account **data set** . A first processing **key value** is constructed using the first **search mask** . Key element X is set to the value 14 read from the customer account data...

Claim

... transaction-related data;
reading from the transaction-related data the one or more data element **values** described in the **key definition** ;
reading a **search mask** from the **database** , wherein the **search mask** comprises one or more **search mask** fields, wherein each of the one or more search mask fields corresponds to one of...related data in the FSO computer system.

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. The method of claim 34, wherein the **key definition** , **search mask** , and one or more **key values** in the **database** are defined by a user of the FSO computer system during a configuration of the...

...transaction-related data; reading from the transaction-related data the one or more data element **values** described in the **key definition** ;
reading a **search mask** from the **database** , wherein the **search mask** comprises one or more **search mask** fields, wherein each of the one or more search mask fields corresponds to one of...
...related data in the FSO computer system. 444. The system of claim 36, wherein the **key definition** , **search mask** , and one or more **key values** in the **database** are defined by a user of the FSO computer system during a configuration of the...

...transaction-related data;
reading from the transaction-related data the one or more data element **values** described in the **key definition** ;
reading a **search mask** from the **database** , wherein the **search mask** comprises one or more **search mask** fields, wherein each of the one or more search mask fields corresponds to one of...

...data in the FSO computer system. 446. The carrier medium of claim 38, wherein the **key definition** , **search mask** , and one or more **key values** in the **database** are defined by a user of the FSO computer system during a configuration of the...values in the one or more rows of the processing parameter table to which the **key definition** is associated.

450. The method of claim 40, further comprising:

reading a **search mask** from the FSO **database** , wherein the search mask comprises one or more search mask fields, wherein each of the...

17/3,K/17 (Item 17 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00777021

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR AN E-COMMERCE BASED USER FRAMEWORK DESIGN FOR MAINTAINING USER PREFERENCES, ROLES AND DETAILS
SYSTEME, PROCEDE ET ARTICLE MANUFACTURE UTILISES EN COMMERCE ELECTRONIQUE

**. POUR LA CONCEPTION DE STRUCTURES D'UTILISATEURS DESTINEES A PRESERVER
LES PREFERENCES, ROLES ET DETAILS DES UTILISATEURS**

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Legal Representative:

HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly LLP, 1400 Page Mill
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Patent and Priority Information (Country, Number, Date):

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Application: WO 2000US20549 20000728 (PCT/WO US0020549)
Priority Application: US 99364091 19990730

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

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Filing Language: English

Fulltext Word Count: 122232

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... In the event that this is a new application, the developer may use the
appropriate **template** from **source code control** .

As needed, DBA 2602 checks required **database source code** out of
source code control . Also as needed, DBA works with development team
to approve and prepare modifications to development...

17/3,K/19 (Item 19 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00776073 **Image available**

METHOD AND SYSTEM FOR CREATING A CRYSTALLIZATION RESULTS DATABASE

**PROCEDE ET SYSTEME DE CREATION D'UNE BASE DE DONNEES DE RESULTATS DE
CRISTALLISATION**

Patent Applicant/Assignee:

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98110, US, US (Residence), US (Nationality)

Inventor(s):

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FLEUCHAUS Lucius, 10618 N.E. 13th Street, Bellevue, WA 98004, US,
DUNN Paul, 6761 N.E. Seabold Road, Bainbridge Island, WA 98110, US,

Legal Representative:

CRUZ Laura A (agent), Christensen O'Connor Johnson & Kindness PLLC, Suite
2800, 1420 Fifth Avenue, Seattle, WA 98101, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200109595 A2-A3 20010208 (WO 0109595)
Application: WO 2000US21043 20000802 (PCT/WO US0021043)

Priority Application: US 99146737 19990802; US 2000631185 20000802

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 60223

International Patent Class: G06F-017/30 ...

Fulltext Availability:

Detailed Description

Detailed Description

... button 2802 opens a drop down list of all of the matrices available in
a **database** . Clicking on a **selected matrix** enters the **matrix** into
the **source matrix field** box 2804. Clicking on a **selected matrix**
also causes source matrix wells to be displayed in a list box 2805
located to...

17/3,K/24 (Item 24 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00512805 **Image available**

**METHOD AND SYSTEM FOR MULTI-ENTRY AND MULTI-TEMPLATE MATCHING IN A DATABASE
PROCEDE ET SYSTEME DE MISE EN CORRESPONDANCE MULTIRUBRIQUE ET MULTIGABARIT
DANS UNE BASE DE DONNEES**

Patent Applicant/Assignee:

SUN MICROSYSTEMS INC,

Inventor(s):

SCHEIFLER Robert,

ARNOLD Kenneth C R C,

WALDO James H,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9944157 A1 19990902

Application: WO 99US4146 19990225 (PCT/WO US9904146)

Priority Application: US 9876048 19980226; US 9844835 19980320

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR
NE SN TD TG

Publication Language: English

Fulltext Word Count: 13471

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... which allows queries to be made upon entries (or multi-entries,
described later) in the **database** . In one implementation, each **query**

includes a **template** that specifies the values (or attributes) of the **key fields** of a given entry which must match corresponding fields of the template to result in...

XX

17/3,K/26 (Item 26 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00450363 **Image available**

METHOD AND SYSTEM FOR DEFINING TRANSACTIONS FROM A DATABASE LOG
PROCEDE ET SYSTEME PERMETTANT DE DEFINIR DES TRANSACTIONS A PARTIR D'UN
JOURNAL DE BASE DE DONNEES

Patent Applicant/Assignee:

LAKEVIEW TECHNOLOGY,
ZAIKEN Kenneth A,
DEHOND Guy,
BOGGS Dan,

Inventor(s):

ZAIKEN Kenneth A,
DEHOND Guy,
BOGGS Dan,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9840827 A1 19980917
Application: WO 98US5087 19980316 (PCT/WO US9805087)
Priority Application: US 97818513 19970314

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI
FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 10596

Main International Patent Class: **G06F-017/00**

International Patent Class: **G06F-017/30**

Fulltext Availability:

Detailed Description
Claims

Detailed Description

... transaction. The data stored in the record includes data values from data fields in the **database**, and **templates** are **selected** by **selecting** a **template** having a **key value** which matches one or more of the data fields whose data values are in the...

Claim

... wherein the data stored in the record 111CIIlides data values from data fields in the **database**. and wherein the step of selecting one of the
32
templates comprises **selecting** a **template** having a **key value** which matches one or more of the data fields whose data values are in the

17/AN,AZ,TI/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2005 European Patent Office. All rts. reserv.

01504244
DATA ACCESS MANAGEMENT SYSTEM AND MANAGEMENT METHOD USING ACCESS CONTROL
TICKET
DATENZUGRIFFSMANAGEMENTSYSTEM UND MANAGEMENTVERFAHREN MIT EINEM
ZUGRIFFSSTEUERTICKET
SYSTEME DE GESTION D'ACCES AUX DONNEES ET PROCEDE DE GESTION UTILISANT UN
BILLET DE COMMANDE D'ACCES
APPLICATION (CC, No, Date): EP 2002702791 020307; WO 2002JP2113 020307
PRIORITY (CC, No, Date): JP 200173353 010315

17/AN,AZ,TI/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2005 European Patent Office. All rts. reserv.

00650776
Indexing/compression scheme for supporting graphics and data selection
Indexierungs-/Komprimierungsschema zur Unterstutzung von Graphiken und
Datenselektion
Arrangement d'indexation/compression pour supporter des graphiques et la
selection de donnees
APPLICATION (CC, No, Date): EP 93109048 930604;
PRIORITY (CC, No, Date): EP 93109048 930604

17/AN,AZ,TI/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2005 European Patent Office. All rts. reserv.

00624646
Indexing multimedia objects
Indexierung von Multimediaobjekten
Indexation d'objets multimedia
APPLICATION (CC, No, Date): EP 93119514 931203;
PRIORITY (CC, No, Date): US 13888 930202

17/AN,AZ,TI/4 (Item 4 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

01153716
SEMANTIC KNOWLEDGE RETRIEVAL MANAGEMENT AND PRESENTATION
SYSTEME ET PROCEDE POUR UNE EXTRACTION, UNE GESTION, UNE CAPTURE, UN
PARTAGE, UNE DECOUVERTE, UNE DISTRIBUTION ET UNE PRESENTATION DE
CONNAISSANCES SEMANTIQUES
Application: WO 2004US4674 20040217 (PCT/WO US04004674)

17/AN,AZ,TI/5 (Item 5 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

01146113
RULE-BASED SYSTEM AND METHOD FOR MACHINING A PART
SYSTEME A BASE DE REGLES ET PROCEDE POUR USINER UNE PIECE
Application: WO 2003US41238 20031223 (PCT/WO US03041238)

17/AN,AZ,TI/6 (Item 6 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

01055617
COMPARISON OF SOURCE FILES
COMPARAISON DE FICHIERS SOURCE
Application: WO 2003EP3698 20030409 (PCT/WO EP03003698)

17/AN,AZ,TI/7 (Item 7 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

01051387
SEARCH MEANS CONTAINING FIXED-LENGTH ADDRESSES GENERATED BY A HASH FUNCTION
MOYENS DE RECHERCHE CONTENANT DES ADRESSES DE LONGUEUR FIXE PRODUITES PAR
UNE FONCTION DE HACHAGE
Application: WO 2002FI257 20020326 (PCT/WO FI0200257)

17/AN,AZ,TI/8 (Item 8 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00886063
HEURISTIC AUTOMATED METHOD FOR IDEAL BUFFERPOOL TUNING IN A COMPUTER
DATABASE
PROCEDE AUTOMATISE HEURISTIQUE PERMETTANT UN REGLAGE IDEAL DE POOL TAMPON
DANS UNE BASE DE DONNEES INFORMATIQUE
Application: WO 2001US26311 20010823 (PCT/WO US0126311)

17/AN,AZ,TI/9 (Item 9 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00872890
SYSTEM AND METHOD FOR SYNCHRONIZING DATABASES
SYSTEME ET PROCEDE DE SYNCHRONISATION DE BASES DE DONNEES
Application: WO 2001IB1590 20010713 (PCT/WO IB0101590)

17/AN,AZ,TI/10 (Item 10 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00841999
A SYSTEM FOR PERSONALIZING AND DISTRIBUTING GEOGRAPHICALLY DISTINCTIVE
PRODUCTS OVER THE INTERNET
SYSTEME POUR PERSONNALISER ET DISTRIBUER DES PRODUITS SE DISTINGUANT EN
FONCTION DU LIEU GEOGRAPHIQUE SUR L'INTERNET
Application: WO 2001US10945 20010403 (PCT/WO US0110945)

17/AN,AZ,TI/11 (Item 11 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00812308
PARALLEL DATA ACCESS PROCEDURE FOR B-TREE STRUCTURES
PROCEDURE D'ACCES A DES DONNES EN PARALLELE POUR STRUCTURES A ARBRE BALANCE
Application: WO 2000MK3 20001122 (PCT/WO MK0000003)

17/AN,AZ,TI/12 (Item 12 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00809292
TIMESHARED ELECTRONIC CATALOG SYSTEM AND METHOD
SYSTEME DE CATALOGUES ELECTRONIQUES A TEMPS PARTAGE ET PROCEDE ASSOCIE
Application: WO 2000US42712 20001205 (PCT/WO US0042712)

17/AN,AZ,TI/13 (Item 13 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00806389

SCHEDULING AND PLANNING BEFORE AND PROACTIVE MANAGEMENT DURING MAINTENANCE
AND SERVICE IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT
PROGRAMMATION ET PLANIFICATION ANTICIPEE, ET GESTION PROACTIVE AU COURS DE
LA MAINTENANCE ET DE L'ENTRETIEN D'UN ENVIRONNEMENT DU TYPE CHAINE
D'APPROVISIONNEMENT RESEAUEE

Application: WO 2000US32228 20001122 (PCT/WO US0032228)

17/AN,AZ,TI/14 (Item 14 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00806384

NETWORK AND LIFE CYCLE ASSET MANAGEMENT IN AN E-COMMERCE ENVIRONMENT AND
METHOD THEREOF
GESTION D'ACTIFS DURANT LE CYCLE DE VIE ET EN RESEAU DANS UN ENVIRONNEMENT
DE COMMERCE ELECTRONIQUE ET PROCEDE ASSOCIE

Application: WO 2000US32324 20001122 (PCT/WO US0032324)

17/AN,AZ,TI/15 (Item 15 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00799831

BUSINESS TRANSACTION PROCESSING SYSTEMS AND METHODS
SYSTEMES ET PROCEDES DE TRAITEMENT DE TRANSACTIONS COMMERCIALES

Application: WO 2000US29978 20001030 (PCT/WO US0029978)

17/AN,AZ,TI/16 (Item 16 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00783289

APPARATUS AND METHOD FOR CREATING A MARKETING INITIATIVE
APPAREIL ET PROCEDE POUR CREER UNE INITIATIVE DE COMMERCIALISATION

Application: WO 2000US23632 20000829 (PCT/WO US0023632)

17/AN,AZ,TI/17 (Item 17 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00777021

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR AN E-COMMERCE BASED USER
FRAMEWORK DESIGN FOR MAINTAINING USER PREFERENCES, ROLES AND DETAILS
SYSTEME, PROCEDE ET ARTICLE MANUFACTURE UTILISES EN COMMERCE ELECTRONIQUE
POUR LA CONCEPTION DE STRUCTURES D'UTILISATEURS DESTINEES A PRESERVER
LES PREFERENCES, ROLES ET DETAILS DES UTILISATEURS

Application: WO 2000US20549 20000728 (PCT/WO US0020549)

17/AN,AZ,TI/18 (Item 18 from file: 349)
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00777017

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A HOST FRAMEWORK DESIGN IN
AN E-COMMERCE ARCHITECTURE
SYSTEME, PROCEDE ET ARTICLE DE PRODUCTION DESTINES A LA CONCEPTION D'UNE
STRUCTURE D'ORDINATEUR CENTRAL DANS UNE ARCHITECTURE DE COMMERCE
ELECTRONIQUE

Application: WO 2000US20560 20000728 (PCT/WO US0020560)

17/AN,AZ,TI/19 (Item 19 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00776073

METHOD AND SYSTEM FOR CREATING A CRYSTALLIZATION RESULTS DATABASE
PROCEDE ET SYSTEME DE CREATION D'UNE BASE DE DONNEES DE RESULTATS DE
CRISTALLISATION

Application: WO 2000US21043 20000802 (PCT/WO US0021043)

17/AN,AZ,TI/20 (Item 20 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00761432
METHODS, CONCEPTS AND TECHNOLOGY FOR DYNAMIC COMPARISON OF PRODUCT FEATURES
AND CUSTOMER PROFILE
PROCEDES, CONCEPTS ET TECHNIQUE DE COMPARAISON DYNAMIQUE DE
CARACTERISTIQUES D'UN PRODUIT ET DU PROFIL DES CONSOMMATEURS
Application: WO 2000US14459 20000524 (PCT/WO US0014459)

17/AN,AZ,TI/21 (Item 21 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00761429
METHODS, CONCEPTS AND TECHNOLOGY FOR A VIRTUAL SHOPPING SYSTEM CAPABLE OF
ASSESSING NEEDS OF A CUSTOMER AND RECOMMENDING A PRODUCT OR SERVICE
BASED ON SUCH ASSESSED NEEDS
PROCEDES, CONCEPTS ET TECHNOLOGIE POUR SYSTEME D'ACHAT VIRTUEL CAPABLE
D'EVALUER LES BESOINS D'UN CLIENT ET DE RECOMMANDER UN PRODUIT OU UN
SERVICE SUR LA BASE DE CES BESOINS
Application: WO 2000US14357 20000524 (PCT/WO US0014357)

17/AN,AZ,TI/22 (Item 22 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00761422
BUSINESS ALLIANCE IDENTIFICATION
SYSTEME, PROCEDE ET ARTICLE DE PRODUCTION POUR L'IDENTIFICATION D'ALLIANCES
COMMERCIALES DANS UN CADRE D'ARCHITECTURE RESEAU
Application: WO 2000US14375 20000524 (PCT/WO US0014375)

17/AN,AZ,TI/23 (Item 23 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00512806
METHOD AND SYSTEM FOR TYPESAFE ATTRIBUTE MATCHING
PROCEDE ET SYSTEME DE MISE EN CORRESPONDANCE SUR DES ATTRIBUTS DE TYPE
GARANTI
Application: WO 99US4148 19990225 (PCT/WO US9904148)

17/AN,AZ,TI/24 (Item 24 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00512805
METHOD AND SYSTEM FOR MULTI-ENTRY AND MULTI-TEMPLATE MATCHING IN A DATABASE
PROCEDE ET SYSTEME DE MISE EN CORRESPONDANCE MULTIRUBRIQUE ET MULTIGABARIT
DANS UNE BASE DE DONNEES
Application: WO 99US4146 19990225 (PCT/WO US9904146)

17/AN,AZ,TI/25 (Item 25 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00512804
METHOD AND SYSTEM FOR IN-PLACE MODIFICATIONS IN A DATABASE

**PROCEDE ,ET SYSTEME SERVANT A EFFECTUER DES MODIFICATIONS EN PLACE DANS UNE
BASE DE DONNEES**

Application: WO 99US4071 19990225 (PCT/WO US9904071)

17/AN,AZ,TI/26 (Item 26 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00450363

**METHOD AND SYSTEM FOR DEFINING TRANSACTIONS FROM A DATABASE LOG
PROCEDE ET SYSTEME PERMETTANT DE DEFINIR DES TRANSACTIONS A PARTIR D'UN
JOURNAL DE BASE DE DONNEES**

Application: WO 98US5087 19980316 (PCT/WO US9805087)

17/AN,AZ,TI/27 (Item 27 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00376923

**STRUCTURED FOCUSED HYPERTEXT DATA STRUCTURE
STRUCTURE DE DONNEES HYPERTEXTE ARTICULEE SUR LA STRUCTURATION**

Application: WO 96IL131 19961023 (PCT/WO IL9600131)

17/AN,AZ,TI/28 (Item 28 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00294697

**APPARATUS FOR ACCELERATING PROCESSING OF TRANSACTIONS ON COMPUTER DATABASES
APPAREIL D'ACCELERATION DU TRAITEMENT DES TRANSACTIONS SUR DES BASES DE
DONNEES INFORMATIQUES**

Application: WO 94US11261 19941004 (PCT/WO US9411261)

17/AN,AZ,TI/29 (Item 29 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00293338

**DATABASE USING TABLE ROTATION AND BIMAPPED QUERIES
BASE DE DONNEES A ROTATION DE TABLES ET A INTERROGATIONS EN MODE POINT**

Application: WO 94US12074 19941024 (PCT/WO US9412074)

?show files;ds

File 2:INSPEC 1969-2005/Jan W5
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File 35:Dissertation Abs Online 1861-2005/Jan
(c) 2005 ProQuest Info&Learning
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*bibliographic
NPL files*

Set	Items	Description
S1	8619462	KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION - OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME- NTAL OR FUNDAMENTAL
S2	6440822	DEFINITION? ? OR VALUE? ? OR DATA() (ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S3	4582802	SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?- ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING - OR FIND???
S4	8061804	MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE() (SET? ? OR BA- SE) OR RULESET? ? OR SET? ? (2W) RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F- RAMWORK? ?
S5	1021256	(TRANSACTION OR MULTIPLICATIVE) () (DATA OR INFORMATION) OR - DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D- ATA OR INFORMATION OR KNOWLEDGE) () (BASE? ? OR BANK? ? OR SET? ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6	234916	S1(5N)S2
S7	186057	S3(5N)S4
S8	168	S5(S)S6(S)S7
S9	31	S5(10N)S6(10N)S7
S10	25	S9 NOT PY>2000
S11	25	S10 NOT PD=20001028:20050331
S12	21	RD (unique items)

12/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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4659431 INSPEC Abstract Number: B9406-1130B-019, C9406-7410D-085

Title: An expert system model for IC mask layout compaction

Author(s): Jae Hwang Lee; Chu Shik Jhon

Journal: Journal of the Korea Information Science Society vol.20, no.3
p.408-21

Publication Date: March 1993 Country of Publication: South Korea

CODEN: HJKHDC ISSN: 0258-9125

Language: Korean

Subfile: B C

...Abstract: based expert system model for mask layout compaction. Our model addresses effective means of representing **mask** layout compaction knowledge, such as **access** methods to **mask** objects, **mask** layout abstraction, mask layout localization, and explicit **definition** of rule application **control** strategy. In order to show the validity of our model, we devise a mask layout...

12/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

04012725 INSPEC Abstract Number: C91072759

Title: Compiling a rule database program into a C/SQL application

Author(s): Kiernan, G.; de Maindreville, C.

Author Affiliation: INRIA, Le Chesnay, France

Conference Title: Proceedings. Seventh International Conference on Data Engineering (Cat. No.91CH2968-6) p.388-95

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1991 Country of Publication: USA xviii+766 pp.

ISBN: 0 8186 2138 9

U.S. Copyright Clearance Center Code: CH2968-6/91/0000-0388\$01.00

Conference Sponsor: IEEE

Conference Date: 8-12 April 1991 Conference Location: Kobe, Japan

Language: English

Subfile: C

...Abstract: ordering among rules is available to the user. The RDL/C compiler translates RDL/C **source code** into C **code** with embedded **structured query** language (SQL) statements. Its implementation is compared to fully integrated deductive **databases** and to loosely coupled systems. It is shown how the rule-based paradigm for a...

12/3,K/9 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02746780 INSPEC Abstract Number: C86050259

Title: Knowledge representation language

Author(s): Koyama, T.

Author Affiliation: Hospital Comput. Center, Hamamatsu Univ., Shizuoka, Japan

Journal: Information Processing Society of Japan vol.26, no.12 p.
1529-35

Publication Date: 1985 Country of Publication: Japan

CODEN: JOSHA4 ISSN: 0447-8053

Language: Japanese

Subfile: C

...Abstract: point of view. The subject of knowledge representation is

particularly important in the development of **knowledge base** systems. A **knowledge base** system developing environment constructed by arranging a **knowledge base control** function such as **definition**, edit and **retrieval** of knowledge and knowledge application **structure** with specific knowledge representation as the center is called is called knowledge representation language.

12/3,K/10 (Item 10 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02622432 INSPEC Abstract Number: C86019908
Title: MAMED small medical database system
Author(s): Sefranek, J.; Skuarenina, M.
Journal: Mechanizace Automatizace Administrativy . vol.25, no.12 p.
466-7
Publication Date: 1985 Country of Publication: Czechoslovakia
CODEN: MAUAAU ISSN: 0322-8452
Language: Slovak
Subfile: C

...Abstract: with data stored in the leaves of the trees. Six functional modules of the **MAMED database** are described dealing with the following topics: **control** and support functions; user files **definition**; data input into the **database**; file **structure** and content modification; data **retrieval**; and statistical analysis.

12/3,K/19 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS
(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1692788 NTIS Accession Number: MIC-89-04625
Bugwatch: Program reference manual
Yee, J. M. ; Yee, S.
Agriculture Canada, Ottawa (Ontario). Research Branch.
Corp. Source Codes: 095534003
Report No.: ISBN-0-662-16764-3
c1989 166p
Languages: English
Journal Announcement: GRAI9304
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC E12/MF E01

... This document presents a disk directory tree and subdirectory contents; a description of all the **data files**; the **procedure / data file access matrix**; and a complete program **source code** listing.

12/AA,AN,TI/1 (Item 1 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: A database application generator for the WWW

12/AA,AN,TI/2 (Item 2 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: An expert system model for IC mask layout compaction

12/AA,AN,TI/3 (Item 3 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: Compiling a rule database program into a C/SQL application

12/AA,AN,TI/4 (Item 4 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: Database reliability: the black box

12/AA,AN,TI/5 (Item 5 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: A Prolog rule-based system for cartographic name placement

12/AA,AN,TI/6 (Item 6 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: Uplift design of transmission tower foundations in sand: a probabilistic approach

12/AA,AN,TI/7 (Item 7 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: dBASE IV: a Paradox killer?

12/AA,AN,TI/8 (Item 8 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: Simple but effective (secretariat system)

12/AA,AN,TI/9 (Item 9 from file: 2)
DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: Knowledge representation language

12/AA,AN,TI/10 (Item 10 from file: 2)

DIALOG(R)File 2:(c) 2005 Institution of Electrical Engineers. All rts.
reserv.

Title: MAMED small medical database system

12/AA,AN,TI/11 (Item 1 from file: 35)
DIALOG(R)File 35:(c) 2005 ProQuest Info&Learning. All rts. reserv.

01785256

Topology based methods for vector field comparisons

12/AA,AN,TI/12 (Item 2 from file: 35)
DIALOG(R)File 35:(c) 2005 ProQuest Info&Learning. All rts. reserv.

0961546

APPLICATION OF AN EXPERT FUZZY LOGIC CONTROLLER TO A ROTARY DRYING PROCESS

12/AA,AN,TI/13 (Item 1 from file: 8)
DIALOG(R)File 8:(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

05048282

E.I. No: EIP98074264753

Title: Database application generator for the WWW

12/AA,AN,TI/14 (Item 2 from file: 8)
DIALOG(R)File 8:(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

03900573

E.I. No: EIP94071344918

Title: Permeability determination from well logs and core data

12/AA,AN,TI/15 (Item 3 from file: 8)
DIALOG(R)File 8:(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

03389934

E.I. Monthly No: EI9203029301

Title: Improving vehicle response to engine and road excitation using interactive graphics and modal reanalysis methods.

12/AA,AN,TI/16 (Item 4 from file: 8)
DIALOG(R)File 8:(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

02949902

E.I. Monthly No: EI9009103077

Title: Selecting the best distillation control configuration.

12/AA,AN,TI/17 (Item 1 from file: 6)
DIALOG(R)File 6:(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rts.
reserv.

NTIS Accession Number: AD-A317 388/7

Evolving Fuzzy Logic Control Strategies using SAMUEL: An Initial Implementation

12/AA,AN,TI/18 (Item 2 from file: 6)
DIALOG(R)File 6:(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rts.
reserv.

NTIS Accession Number: TIB/A95-05331

Better formal basis for stating SQL-like queries in value- and object-based DBS

12/AA,AN,TI/19 (Item 3 from file: 6)

DIALOG(R)File 6:(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rts.
reserv.

NTIS Accession Number: MIC-89-04625

Bugwatch: Program reference manual

12/AA,AN,TI/20 (Item 4 from file: 6)

DIALOG(R)File 6:(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rts.
reserv.

NTIS Accession Number: DE85003284

ELECT Groundwater Transport Research Code. Final Report

12/AA,AN,TI/21 (Item 5 from file: 6)

DIALOG(R)File 6:(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rts.
reserv.

NTIS Accession Number: DE84015353

Computer Implementation of a Globally Averaged Model of the World Carbon Cycle

?show files;ds

File 9:Business & Industry(R) Jul/1994-2005/Feb 07
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File 15:ABI/Inform(R) 1971-2005/Feb 07
(c) 2005 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2005/Feb 08
(c) 2005 The Gale Group
File 20:Dialog Global Reporter 1997-2005/Feb 08
(c) 2005 The Dialog Corp.
File 148:Gale Group Trade & Industry DB 1976-2005/Feb 07
(c)2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Feb 08
(c) 2005 The Gale Group

Set	Items	Description
S1	20261747	KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION - OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME- NTAL OR FUNDAMENTAL
S2	11639213	DEFINITION? ? OR VALUE? ? OR DATA() (ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S3	15035817	SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?- ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING - OR FIND???
S4	8359079	MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE() (SET? ? OR BA- SE) OR RULESET? ? OR SET? ? (2W) RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F- FRAMEWORK? ?
S5	2148577	(TRANSACTION OR MULTIPLICATIVE) () (DATA OR INFORMATION) OR - DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D- ATA OR INFORMATION OR KNOWLEDGE) () (BASE? ? OR BANK? ? OR SET? ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6	489881	S1 (5N) S2
S7	198547	S3 (5N) S4
S8	345	S5 (S) S6 (S) S7
S9	358957	S1 (3N) S2
S10	139665	S3 (3N) S4
S11	66	S5 (10N) S9 (10N) S10
S12	48	S5 (7N) S9 (7N) S10
S13	45	S12 NOT PY>2000
S14	45	S13 NOT PD=20001028:20050331
S15	33	RD (unique items)

15/3,K/8 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

04641524 Supplier Number: 46828520 (USE FORMAT 7 FOR FULLTEXT)
DataMirror Reflects New Capabilities
MIDRANGE Systems, p030
Oct 25, 1996
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 312

(USE FORMAT 7 FOR FULLTEXT)

TEXT:
...improved performance, new enhancements include support for multi-member
file structures, user exits at the **database** level, improved Windows NT
installation **procedures**, and **access** journal **control** **fields**.

XX

15/3,K/12 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

10459843 SUPPLIER NUMBER: 21128861 (USE FORMAT 7 OR 9 FOR FULL TEXT)
DATABASE UPDATE.(relational database management software) (Technology
Information)
McCormick, John
Government Computer News, v17, n29, p63(1)
Sept 7, 1998
ISSN: 0738-4300 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 2295 LINE COUNT: 00232

... is then arranged in rows using indexed fields, and the query engine
joins tables of **data** **based** on user-selected **key** **fields**.
The more sophisticated RDBMSes use **Structured** **Query** Language as
the basis for creating a query, that

15/3,K/21 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04119097 SUPPLIER NUMBER: 07755222 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The next generation. (the growing use of Structured Query Language)
Jackson, Peter
PC User, n115, p59(3)
Sept 13, 1989
ISSN: 0263-5720 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2603 LINE COUNT: 00202

... just 12 commands, it's very flexible and can control every aspect
of a relational **database**. Oracle describes it as a "**structured** **query**,
update, data **definition**, **control**, consistency, concurrency and
dictionary language". The simplicity of the language comes from the fact
that...

15/3,K/22 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

01154193
DATA BASE LANGUAGE STANDARDIZATION.
EDP WEEKLY February 4, 1985 p. 4,5

„ Relational Data Base Systems wants its SQL language to be the standard for data base programming, and has offered to share some of its source code with systems developers. SQL, the structured query language developed by IBM, accesses data within a data base, and also defines relationships within the data base. To further back its commitment to SQL...

15/3,K/24 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01691115 SUPPLIER NUMBER: 15578887 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A guide to data integrity rules. (PC Tech: Corporate Developer) (Column)
(Tutorial)
Ricciardi, Sal
PC Magazine, v13, n14, p387(3)
August, 1994
DOCUMENT TYPE: Tutorial ISSN: 0888-8507 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2460 LINE COUNT: 00191

...ABSTRACT: user-defined. The entity integrity rule mandates that all rows be assigned an identifier or **primary - key value**. **Databases** that support **primary** keys include Borland's Paradox for Windows and Microsoft's **Access**. The referential integrity **rule** requires that **databases** reject updates or deletions that change or eliminate the target of a reference. Access includes...

15/3,K/30 (Item 8 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01321029 SUPPLIER NUMBER: 08550029 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Data Based Advisor COMDEX sneak preview. (COMDEX '89; includes related article on Microrim Inc.'s next-generation database management system)
Data Based Advisor, v7, n11, p71(33)
Nov, 1989
ISSN: 0740-5200 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 24226 LINE COUNT: 02038

... the data files can be as large as four billion bytes, with up to 24 **key fields** per **data file**. The Data Dictionary maintains all **data file structures** in one **location**. TAS uses the Btrieve File Management System, to avoid degradation of file

15/3,K/31 (Item 9 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01290841 SUPPLIER NUMBER: 07073636 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Database directions for the 90's. (The open database architecture of the 90's.)
Kalman, David
Data Based Advisor, v7, n3, p52(5)
March, 1989
ISSN: 0740-5200 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3553 LINE COUNT: 00296

... In addition, organizations with applications already written in other languages can adapt them to new **database** management systems without re-coding.

To take full advantage of relational **database** engines, programmers

can embed **Structured Query Language (SQL)** statements in the low level language for data **definition** , **control** , and manipulation. Among its many attributes (see sidebar), SQL provides a standardized access language that ...

15/3,K/33 (Item 11 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01208709 SUPPLIER NUMBER: 05031356. (USE FORMAT 7 OR 9 FOR FULL TEXT)
Database design techniques. (relational DBMS applications programming)
Browning, Dave
PC Tech Journal, v5, n7, p112(12)
July, 1987
ISSN: 0738-0194 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 8914 LINE COUNT: 00703

... methodology depends on the choice of data manager and should match the requirements for the **database** application being developed. This choice is an important part of the design process.

Database structure design, **key field selection** , index specification, and query techniques all influence overall system performance and require developers to pay...

15/AA,AN,TI/1 (Item 1 from file: 9)
DIALOG(R)File 9:(c) 2005 The Gale Group. All rts. reserv.

1192565 Supplier Number: 01192565
Apple Inks Agreement With Visigenic, IBM

15/AA,AN,TI/2 (Item 1 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

02012585 52687228
Automated collision database and reporting system for Nashville

15/AA,AN,TI/3 (Item 2 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

01551040 02-02029
Microsoft Access 97

15/AA,AN,TI/4 (Item 3 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

01064806 97-14200
ODBC and UNIX: Port no more?

15/AA,AN,TI/5 (Item 4 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

00956535 96-05928
Contact management software: It's not what you know

15/AA,AN,TI/6 (Item 1 from file: 16)
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06694770 Supplier Number: 55998620
StrandWare Debuts New Version of Industry Leading Label Matrix Software.

15/AA,AN,TI/7 (Item 2 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

04835467 Supplier Number: 47114540
RIO Developer marries C++ to relational databases

15/AA,AN,TI/8 (Item 3 from file: 16)
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04641524 Supplier Number: 46828520
DataMirror Reflects New Capabilities

15/AA,AN,TI/9 (Item 4 from file: 16)
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04521055 Supplier Number: 46642087
I-Kinetics' JComponentPro offers integrated Java and CORBA component tool
suite Java desktop components can run anywhere accessing CORBA server
components located anywhere.

15/AA,AN,TI/10 (Item 5 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

04415583 Supplier Number: 46478322
PC Expo - Radnet's WebShare For Web Groupware Apps 06/19/96

15/AA,AN,TI/11 (Item 6 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

02631543 Supplier Number: 43502661
CA extends report writer range

15/AA,AN,TI/12 (Item 1 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

10459843 SUPPLIER NUMBER: 21128861
DATABASE UPDATE.(relational database management software) (Technology Information)

15/AA,AN,TI/13 (Item 2 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

08327731 SUPPLIER NUMBER: 17847696
Diamond Head opens its electronic file cabinet. (Diamond Head Software Inc.) (Special ImagingExpo Issue)

15/AA,AN,TI/14 (Item 3 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

08010960 SUPPLIER NUMBER: 16993625
Apple inks agreements with Visgenic, IBM. (Visigenic Software Inc)

15/AA,AN,TI/15 (Item 4 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

07708923 SUPPLIER NUMBER: 16641800
An Agile Ethernet/ATM switch. (Agile Networks Inc; local area network; asynchronous transfer mode)

15/AA,AN,TI/16 (Item 5 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

07202614 SUPPLIER NUMBER: 15055753
Going with the flow. (workflow management systems for engineering organizations) (Special Report: Managing Engineering Data)

15/AA,AN,TI/17 (Item 6 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

05471020 SUPPLIER NUMBER: 11071505
SQL for PC users. (structured query language) (includes related articles on the history of SQL, the future of the client/server model, and SQL Server under Novell) (Software Review) (overview of four database management systems that offer SQL links) (evaluation)

15/AA,AN,TI/18 (Item 7 from file: 148)

DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

05226513 SUPPLIER NUMBER: 10859235
New French agri-food sectoral plans.

15/AA,AN,TI/19 (Item 8 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

05184513 SUPPLIER NUMBER: 10863508
ObjectSoft tightens data links; Windows program lets users create, view
data ties. (ObjectSoft Corp.'s Relate search software) (product
announcement)

15/AA,AN,TI/20 (Item 9 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

05124259 SUPPLIER NUMBER: 10506739
Software reuse offers the "missing link" in CAIS. (common Ada interface
set) (includes information on component products)

15/AA,AN,TI/21 (Item 10 from file: 148)
DIALOG(R)File 148:(c)2005 The Gale Group. All rts. reserv.

04119097 SUPPLIER NUMBER: 07755222
The next generation. (the growing use of Structured Query Language)

15/AA,AN,TI/22 (Item 1 from file: 160)
DIALOG(R)File 160:(c) 1999 The Gale Group. All rts. reserv.

01154193
DATA BASE LANGUAGE STANDARDIZATION.

15/AA,AN,TI/23 (Item 1 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01948674 SUPPLIER NUMBER: 18406926
PC Expo - Radnet's WebShare For Web Groupware Apps.

15/AA,AN,TI/24 (Item 2 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01691115 SUPPLIER NUMBER: 15578887
A guide to data integrity rules. (PC Tech: Corporate Developer) (Column)
(Tutorial)

15/AA,AN,TI/25 (Item 3 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01664012 SUPPLIER NUMBER: 15005180
SQL-Programmer 1.5. (Sylvain Faust Inc.'s data base application development
software package) (Software Review) (Evaluation)

15/AA,AN,TI/26 (Item 4 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01623575 SUPPLIER NUMBER: 14468936
Using PowerBuilder and SQL Server store procedures. (Client/Server Advisor:

PowerBuilder techniques) (Column) (Tutorial)

15/AA,AN,TI/27 (Item 5 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01580076 SUPPLIER NUMBER: 13068635
DataPivot 1.1. (Brio Technology Inc.'s statistical analysis and report
writing software package) (Software Review) (Products: Hands On)
(Evaluation)

15/AA,AN,TI/28 (Item 6 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01495497 SUPPLIER NUMBER: 11697536
Da Vinci remaps eMail architecture. (eMail 2.0 for DOS) (brief article)
(Product Announcement)

15/AA,AN,TI/29 (Item 7 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01357949 SUPPLIER NUMBER: 08381582
Special events, part 2. (event driven programming) (The Fox Files)
(technical) (tutorial)

15/AA,AN,TI/30 (Item 8 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01321029 SUPPLIER NUMBER: 08550029
Data Based Advisor COMDEX sneak preview. (COMDEX '89; includes related
article on Microrim Inc.'s next-generation database management system)

15/AA,AN,TI/31 (Item 9 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01290841 SUPPLIER NUMBER: 07073636
Database directions for the 90's. (The open database architecture of the
90's.)

15/AA,AN,TI/32 (Item 10 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01251528 SUPPLIER NUMBER: 06827655
Arris. (Software Review) (one of 12 CADD packages evaluations) (evaluation)

15/AA,AN,TI/33 (Item 11 from file: 275)
DIALOG(R)File 275:(c) 2005 The Gale Group. All rts. reserv.

01208709 SUPPLIER NUMBER: 05031356
Database design techniques. (relational DBMS applications programming)

?show files;ds

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(c) 2005 Financial Times Ltd
File 610:Business Wire 1999-2005/Feb 08
(c) 2005 Business Wire.
File 613:PR Newswire 1999-2005/Feb 08
(c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Feb 08
(c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Feb 08
(c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/Feb 06
(c) 2005 San Jose Mercury News
File 636:Gale Group Newsletter DB(TM) 1987-2005/Feb 08
(c) 2005 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 267:Finance & Banking Newsletters 2005/Feb 07
(c) 2005 The Dialog Corp.
File 268:Banking Info Source 1981-2005/Jan W4
(c) 2005 ProQuest Info&Learning
File 625:American Banker Publications 1981-2005/Feb 08
(c) 2005 American Banker
File 626:Bond Buyer Full Text 1981-2005/Feb 08
(c) 2005 Bond Buyer

*full text
NPL
files - 2*

Set	Items	Description
S1	7645747	KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION - OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME- NTAL OR FUNDAMENTAL
S2	4121246	DEFINITION? ? OR VALUE? ? OR DATA() (ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S3	4967269	SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?- ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING - OR FIND???
S4	2567845	MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE() (SET? ? OR BA- SE) OR RULESET? ? OR SET? ? (2W) RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F- FRAMEWORK? ?
S5	815246	(TRANSACTION OR MULTIPLICATIVE) () (DATA OR INFORMATION) OR - DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D- ATA OR INFORMATION OR KNOWLEDGE) () (BASE? ? OR BANK? ? OR SET? ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6	173866	S1(5N)S2
S7	63142	S3(5N)S4
S8	58	S5(S)S6(S)S7
S9	23	S5(10N)S6(10N)S7
S10	18	S9 NOT PY>2000
S11	16	S10 NOT PD=20001028:20050331
S12	13	RD (unique items)

12/3,K/2 (Item 2 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
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01235480 Supplier Number: 44190402 (USE FORMAT 7 FOR FULLTEXT)
**ENHANCED WOODSTOCK BUILDING SUPPLIER SOFTWARE: FASTER PROCESSING - MORE
FEATURES**

News Release, pN/A
Oct 27, 1993
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 541

... and streamlined for order, quote and PO modules
for optimal performance. All files
externally defined.
Database Extensions IMPROVED!
Enhanced **master field** /file reference **structure** with all files
externally defined. **Query** -ready column,
header, edit codes.
AS/400 Sryle Windows Intelligent Prompting...ENHANCED!
Extended to all...

12/3,K/4 (Item 3 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

01036598 Supplier Number: 40003274 (USE FORMAT 7 FOR FULLTEXT)
**'4th-WRITE' -- An Automated Documentation and easy Maintenance Tool for
FOCUS... end-users hate to do it and managers could have major problems
if it is not done properly.**

PR Newswire, pN/A
March 23, 1987
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 195

... stripping all essential data from your FOCUS MASTERS and FOCEXECs,
including optional comments from the **source code**
, and then creating a
FOCUS database . 4th-WRITE makes maintenance through on-line **query**
screens a more accurate **procedure** . The **query**
screens demonstrate the
impact of a change on a system's files or fields. 4th...

12/3,K/12 (Item 7 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01159113 Supplier Number: 40984247 (USE FORMAT 7 FOR FULLTEXT)
IBM Announcements
Computergram International, n1285, pN/A
Oct 17, 1989
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1024

... RPQ
VM/Software Engineering Version 2 is a VM-based facility that controls
and manages **source** and object **code** , documentation, and other
machine-processable material during software development and build
processes. **Structured Query** Language/Data System provides the central
database facilities to control and manage software objects and related

data. This licensed program replaces both...

12/3,K/13 (Item 1 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0468599 BW0135

QUINTUS: Quintus announces beta for for CustomerQ 2.3; provides integrated solutions for customer service automation; new tools provide cross-departmental solutions

XX

March 06, 1995

Byline: Business Editors/Computer Writers

...as providing CustomerQ's powerful problem resolution technology. Using HelpQ, a help desk analyst can **select** a problem **template**, and HelpQ fills in **key** data **fields** using default **values** and provides a pop-up with relevant diagnostic questions. HelpQ can then search the solution **database** to locate the appropriate problem resolution.

CallQ is a variant of HelpQ that is optimized...

12/AA,AN,TI/1 (Item 1 from file: 610)
DIALOG(R)File 610:(c) 2005 Business Wire. All rts. reserv.

19991005278B1234
StrandWare Debuts New Version of Industry Leading Label Matrix Software

12/AA,AN,TI/2 (Item 1 from file: 621)
DIALOG(R)File 621:(c) 2005 The Gale Group. All rts. reserv.

01418289 Supplier Number: 46642087
I-Kinetics' JComponentPro offers integrated Java and CORBA component tool suite Java desktop components can run anywhere accessing CORBA server components located anywhere.

12/AA,AN,TI/3 (Item 2 from file: 621)
DIALOG(R)File 621:(c) 2005 The Gale Group. All rts. reserv.

01235480 Supplier Number: 44190402
ENHANCED WOODSTOCK BUILDING SUPPLIER SOFTWARE: FASTER PROCESSING - MORE FEATURES

12/AA,AN,TI/4 (Item 3 from file: 621)
DIALOG(R)File 621:(c) 2005 The Gale Group. All rts. reserv.

01036598 Supplier Number: 40003274
'4th-WRITE' -- An Automated Documentation and easy Maintenance Tool for FOCUS... end-users hate to do it and managers could have major problems if it is not done properly.

12/AA,AN,TI/5 (Item 1 from file: 624)
DIALOG(R)File 624:(c) 2005 McGraw-Hill Co. Inc. All rts. reserv.

0495710
Three Touches of Class: Liant, Lucid, and Parcplace show flexible object programming in C++

12/AA,AN,TI/6 (Item 1 from file: 636)
DIALOG(R)File 636:(c) 2005 The Gale Group. All rts. reserv.

03511151 Supplier Number: 47249908
COMPANIES NEED CERTIFICATE INTEROPERABILITY Certificate Authorities Positioning To Instill Peace of Mind

12/AA,AN,TI/7 (Item 2 from file: 636)
DIALOG(R)File 636:(c) 2005 The Gale Group. All rts. reserv.

03238890 Supplier Number: 46642369
I-KINETICS: I-Kinetics' JComponentPro offers integrated Java and CORBA component tool suite

12/AA,AN,TI/8 (Item 3 from file: 636)
DIALOG(R)File 636:(c) 2005 The Gale Group. All rts. reserv.

03163304 Supplier Number: 46478322
PC Expo - Radnet's WebShare For Web Groupware Apps 06/19/96

12/AA,AN,TI/9 (Item 4 from file: 636)

DIALOG(R)File 636:(c) 2005 The Gale Group. All rts. reserv.

02903332 Supplier Number: 45903233
DIAMOND HEAD OPENS ITS ELECTRONIC FILE CABINET.

12/AA,AN,TI/10 (Item 5 from file: 636)
DIALOG(R)File 636:(c) 2005 The Gale Group. All rts. reserv.

02772843 Supplier Number: 45626902
NEW DATABASE WIDENS ORACLE'S TECHNOLOGY LEAD IN DATA WAREHOUSING MARKET

12/AA,AN,TI/11 (Item 6 from file: 636)
DIALOG(R)File 636:(c) 2005 The Gale Group. All rts. reserv.

01968204 Supplier Number: 43502661
CA extends report writer range

12/AA,AN,TI/12 (Item 7 from file: 636)
DIALOG(R)File 636:(c) 2005 The Gale Group. All rts. reserv.

01159113 Supplier Number: 40984247
IBM Announcements

12/AA,AN,TI/13 (Item 1 from file: 810)
DIALOG(R)File 810:(c) 1999 Business Wire . All rts. reserv.

0468599

Quintus announces beta for for CustomerQ 2.3; provides integrated solutions
for customer service automation; new tools provide cross-departmental
solutions

?show files;ds

File 13:BAMP 2005/Jan W5
(c) 2005 The Gale Group
File 75:TGG Management Contents(R) 86-2005/Jan W5
(c) 2005 The Gale Group
File 990:NewsRoom Current Nov 1 -2005/Feb 08
(c) 2005 The Dialog Corporation
File 635:Business Dateline(R) 1985-2005/Feb 08
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(c) 2005 CMP Media, LLC
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(c) 2005 IDG Communications
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(c) 2002 Federal News Service
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(c) 2004 The HW Wilson Co.
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(c) 2005 Reed Business Information Ltd.
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(c) 1999 AAAS
File 95:TEME-Technology & Management 1989-2005/Jan W1
(c) 2005 FIZ TECHNIK
File 553:Wilson Bus. Abs. FullText 1982-2004/Sep
(c) 2004 The HW Wilson Co
File 141:Readers Guide 1983-2004/Sep
(c) 2004 The HW Wilson Co
File 482:Newsweek 2000-2005/Feb 02
(c) 2005 Newsweek, Inc.
File 483:Newspaper Abs Daily 1986-2005/Feb 05
(c) 2005 ProQuest Info&Learning
File 484:Periodical Abs Plustext 1986-2005/Jan W5
(c) 2005 ProQuest

*Full Text
NPL
files-3*

Set	Items	Description
S1	7122902	KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION - OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME- NTAL OR FUNDAMENTAL
S2	4837186	DEFINITION? ? OR VALUE? ? OR DATA() (ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S3	5422654	SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?- ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING - OR FIND???
S4	4177781	MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE() (SET? ? OR BA- SE) OR RULESET? ? OR SET? ? (2W) RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F- RAMWORK? ?
S5	593365	(TRANSACTION OR MULTIPLICATIVE) () (DATA OR INFORMATION) OR - DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D- ATA OR INFORMATION OR KNOWLEDGE) () (BASE? ? OR BANK? ? OR SET? ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6	205865	S1(5N)S2
S7	96003	S3(5N)S4
S8	121	S5(S)S6(S)S7
S9	151046	S1(3N)S2
S10	66484	S3(3N)S4
S11	10	S5(10N)S9(10N)S10
S12	15	S5(10N)S6(10N)S7
S13	77	S5(S)S9(S)S10

S14	18	S5(S) (S9(10N)S10)
S15	25	S11 OR S12 OR S14
S16	18	S15 NOT PY>2000
S17	18	S16 NOT PD=20001028:20050331
S18	17	RD (unique items)

18/3,K/1 (Item 1 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

2020894 48143045

**iExalt, Inc. Completes Acquisition of netFilter Technologies; Acquisition
Provides Source Code for Dynamic Filtering Software With Widespread
Applications**

Anonymous

Business Wire p1

Jan 20, 2000

WORD COUNT: 718

DATELINE: Houston Texas

TEXT:

...its multi-level filtering technology. Most traditional filters compare outgoing search requests against a "static" **database** that must be continually updated. In addition to static filtering, netFilter has developed a proprietary...

...that screens Internet content as it flows back into the user's computer. The dynamic **filter** reads each **retrieved** document and blocks the request if it detects **codes** and **key** words established in the filtering parameters, even if the site is not included in the static **database**.

SmartSearch+ is the sophisticated artificial intelligence built into the software. It continually searches websites for...

18/3,K/12 (Item 2 from file: 553)
DIALOG(R)File 553:Wilson Bus. Abs. FullText
(c) 2004 The HW Wilson Co. All rts. reserv.

02319009 H.W. WILSON RECORD NUMBER: BWBA92069009

A shared resource access manager.

Grehan, Rick

Byte (Byte) v. 17 (Aug. '92) p. 279-80+

LANGUAGE: English

...ABSTRACT: disk space, printers, or other peripheral devices--or logical, such as printer queues, files within **databases**, records within **database** tables, and fields within records. The easiest method of providing access management is through semaphores, which are active data **structures** typically used to **control access** to critical sections of **code** in a multitasking environment. File locking, access coordination, and the differences between binary and counted...

18/3,K/16 (Item 3 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2005 ProQuest. All rts. reserv.

03523026 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Parametric Technology Corp.

Bartholomew, Doug; Greengard, Samuel; Hasek, Glenn; Jesitus, John; et al
Industry Week (IW), v246 n23, p56-58, p.2

Dec 15, 1997

ISSN: 0039-0895 JOURNAL CODE: IW

DOCUMENT TYPE: News

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 535

TEXT:

... is create Web pages that can automate and standardize certain processes within ProENGINEER. You can **retrieve template** models, set and

control parameter **values** to enforce company standards, do design-rule checking, add third-party applications, and link back to other **databases** and software applications, which can yield parameters that likewise can drive ProENGINEER." For instance, users can link into ERP or MRP **databases** in real time, pull in that information and let Pro/Web.Link push it directly...

18/AA,AN,TI/1 (Item 1 from file: 635)
DIALOG(R)File 635:(c) 2005 ProQuest Info&Learning. All rts. reserv.

48143045
iExalt, Inc. Completes Acquisition of netFilter Technologies; Acquisition
Provides Source Code for Dynamic Filtering Software With Widespread
Applications

18/AA,AN,TI/2 (Item 1 from file: 647)
DIALOG(R)File 647:(c) 2005 CMP Media, LLC. All rts. reserv.

01187587 CMP ACCESSION NUMBER: IWK19990322S0002
Symantec Strengthens Its Java Offering - Visual Cafe 3.0 Features
Integrated Debugger, Wizards, And Middleware

18/AA,AN,TI/3 (Item 2 from file: 647)
DIALOG(R)File 647:(c) 2005 CMP Media, LLC. All rts. reserv.

01147225 CMP ACCESSION NUMBER: IWK19971201S0056
Fine-Tuned Customization - Autodesk to acquire language enhancer

18/AA,AN,TI/4 (Item 3 from file: 647)
DIALOG(R)File 647:(c) 2005 CMP Media, LLC. All rts. reserv.

01053109 CMP ACCESSION NUMBER: cwk19950515S0037
Apple Inks Agreements With Visigenic, IBM (In Brief)

18/AA,AN,TI/5 (Item 4 from file: 647)
DIALOG(R)File 647:(c) 2005 CMP Media, LLC. All rts. reserv.

00634344 CMP ACCESSION NUMBER: EET19890925S2463
Sun environment supports Lisp

18/AA,AN,TI/6 (Item 5 from file: 647)
DIALOG(R)File 647:(c) 2005 CMP Media, LLC. All rts. reserv.

00551940 CMP ACCESSION NUMBER: WIN19930201S10324
AND... - PFS:WindowWorks Release 2.0

18/AA,AN,TI/7 (Item 1 from file: 674)
DIALOG(R)File 674:(c) 2005 IDG Communications. All rts. reserv.

049522
Legacy transition tools aid move to client/server
Journal: Network World

18/AA,AN,TI/8 (Item 2 from file: 674)
DIALOG(R)File 674:(c) 2005 IDG Communications. All rts. reserv.

013318
New software eases task of setting up NetWare servers
Tools let user copy configuratin files to servers.
Journal: Network World

18/AA,AN,TI/9 (Item 1 from file: 95)
DIALOG(R)File 95:(c) 2005 FIZ TECHNIK. All rts. reserv.

I9605657259

A query algebra for program databases

(Eine Abfragealgebra fuer Programmdatenbanken)

18/AA,AN,TI/10 (Item 2 from file: 95)

DIALOG(R)File 95:(c) 2005 FIZ TECHNIK. All rts. reserv.

I91104637937

Compiling a rule database program into a C/SQL application

(Uebersetzung eines Regeldatenbankprogramms in eine C/SQL-Anwendung)

18/AA,AN,TI/11 (Item 1 from file: 553)

DIALOG(R)File 553:(c) 2004 The HW Wilson Co. All rts. reserv.

03029869 H.W. WILSON RECORD NUMBER: BWBA95029869

An Agile Ethernet/ATM switch.

AUGMENTED TITLE: Agile's ATMizer 125 Relational Switch

18/AA,AN,TI/12 (Item 2 from file: 553)

DIALOG(R)File 553:(c) 2004 The HW Wilson Co. All rts. reserv.

02319009 H.W. WILSON RECORD NUMBER: BWBA92069009

A shared resource access manager.

18/AA,AN,TI/13 (Item 1 from file: 141)

DIALOG(R)File 141:(c) 2004 The HW Wilson Co. All rts. reserv.

H.W. WILSON RECORD NUMBER: BRGA92046048

A shared resource access manager (I).

18/AA,AN,TI/14 (Item 1 from file: 484)

DIALOG(R)File 484:(c) 2005 ProQuest. All rts. reserv.

04709097 SUPPLIER NUMBER: 51571028

Using Samba / Learning Debian GNU/Linux / The Cathedral and the Bazaar:

Musings on Linux and Open Source by an Accidental Revolutionary / MySQL & mSQL / Under the Radar: ...

18/AA,AN,TI/15 (Item 2 from file: 484)

DIALOG(R)File 484:(c) 2005 ProQuest. All rts. reserv.

04629121 SUPPLIER NUMBER: 48154164

Qualitative research and the study of the U.S. Presidency

18/AA,AN,TI/16 (Item 3 from file: 484)

DIALOG(R)File 484:(c) 2005 ProQuest. All rts. reserv.

03523026

Parametric Technology Corp.

18/AA,AN,TI/17 (Item 4 from file: 484)

DIALOG(R)File 484:(c) 2005 ProQuest. All rts. reserv.

03513988

Microsoft Access 97

09677153

=> dis his

(FILE 'HOME' ENTERED AT 12:50:10 ON 08 FEB 2005)

FILE 'CONFSCI' ENTERED AT 12:50:17 ON 08 FEB 2005

L1 75721 S KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME O
L2 37487 S DEFINITION# OR VALUE# OR DATA(W) (ELEMENT# OR ITEM#) OR DATAFI
L3 29129 S SEARCH### OR LOCATION OR SELECT### OR RETRIEV### OR CRAWL###
L4 58493 S MASK OR TEMPLATE# OR RULE(W) (SET# OR BASE) OR RULESET# OR SET
L5 6630 S (TRANSACTION OR MULTIPLICATIVE) (W) (DATA OR INFORMATION) OR DA
L6 814 S L1(5A)L2
L7 636 S L3(5A)L4
L8 0 S L5(P)L6(P)L7
L9 0 S L5 AND L6 AND L7
L10 20 S L5 AND (L6 OR L7)
L11 20 S L5(P) (L6 OR L7)
L12 19 S L5(10A) (L6 OR L7)

09677153

L12 ANSWER 6 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
AN 2000:16032 CONFSCI
DN 00-012903
TI Matched **field** processing: Environmental focusing and
source tracking with applications to North Elba **data**
set
AU Soares, C.; Jesus, S.M.; Waldhorst, A.
CS Univ. Algarve, Faro, Portugal
SO Marine Technology Society (MTS), 1828 L Street NW, Suite 906, Washington,
D.C. 20036, USA; phone: 202-775-5966; email: 75112.2154@compuserve.com;
URL: <http://www.selectsite.com/oceans95/mts/>, Full papers available.
Contact MTS for price. Poster Paper.
Meeting Info.: 993 0042: Oceans '99 (9930042). Seattle, WA (USA). 13-16
Sep 1999. AGU, ASCE, NOIA, Oceanography Society, Society of Naval
Architects & Marine Engineers.
DT Conference
FS DCCP
LA English

L12 ANSWER 12 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
AN 85:81908 CONFSCI
DN 86016547
TI Evaluation **procedure** for **selecting database**
systems according to usability and functionality criteria
AU Penniall, T.H.
SO Taylor and Francis, Rankine Road, Basingstoke, Hampshire, RE24 0PR (UK);
Taylor and Francis, 242 Cherry Street, Philadelphia, PA 19106-1906 (USA),
Price: 65 pounds sterling.
Meeting Info.: 853 0155: Ninth Congress of the International Ergonomics
Association (8530155). Bournemouth (UK). 2-6 Sep 1985. International
Ergonomics Association (IEA).
DT Conference
FS DCCP
LA UNAVAILABLE

L12 ANSWER 14 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
AN 85:63977 CONFSCI
DN 85071051
TI TINman: A new look at **database structure** and
retrieval
AU Noerr, K.T.B.; Noerr, P.L.
CS Inf. Manage. and Eng., Ltd.
SO Learned Information, Inc., 143 Old Marlton Pike, Medford, NJ 08055, USA,
Price -- \$50.00.
Meeting Info.: 852 0471: National Online Meeting (8520471). New York, NY
(USA). 30 Apr-2 May 1985. Sponsor not indicated.
DT Conference
FS DCCP
LA UNAVAILABLE

L12 ANSWER 18 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
AN 75:28168 CONFSCI
DN 75075465
TI Storage **structures** & **access** methods in relational
data base management system INGRES.
AU Held, G...
SO Proceedings ACM Pacific 75," available Apr 75, \$10 prepaid: Mail Room,
Boole & Babbage, Inc., 850 Stewart Drive, Sunnyvale, Calif. 94086..

02/08/2005 CSW-E

09677153

Meeting Info.: 1975 ACM Pacific Regional Conference (A752292). San Francisco, California. 17-18 Apr 75. Association for Computing Machinery.

DT Conference Article

FS DCCP

LA UNAVAILABLE

09677153

- L12 ANSWER 1 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI **Structure** of domain novice users' **queries** to a historical **database**
- L12 ANSWER 2 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI **Searching** techniques for chemical **structure databases**
- L12 ANSWER 3 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI **Structure searching** using SMILES and relational **databases**
- L12 ANSWER 4 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI **Structured query** fragment analysis **database**
- L12 ANSWER 5 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI **Knowledge-based** system and GIS **framework** for **selecting** conservation networks
- L12 ANSWER 6 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Matched **field** processing: Environmental focusing and **source** tracking with applications to North Elba **data set**
- L12 ANSWER 7 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI 3DinSight: An integrated **database** and **search** tool for **structure**, function and property of biomolecules
- L12 ANSWER 8 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Protein **finder** - A relational **database** of protein **structures** and supporting tools
- L12 ANSWER 9 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Negative **rules** and **queries** in expert **database** systems
- L12 ANSWER 10 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI On negative **rules** and **queries** in expert **database** systems
- L12 ANSWER 11 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Extension of nuclear **structure data base** **searches** for gamma-ray laser candidates
- L12 ANSWER 12 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Evaluation **procedure** for **selecting database** systems according to usability and functionality criteria
- L12 ANSWER 13 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Analysis of computer storage **structures** and **access** methods from a statistical **database** perspective
- L12 ANSWER 14 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI TINman: A new look at **database structure** and **retrieval**
- L12 ANSWER 15 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Storage and **access structures** for geometric

02/08/2005 CSW-E

data bases

- L12 ANSWER 16 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Multi-level P-trees, an efficient data **structure** for storing,
manipulating and **retrieving** information in distributed as well
as centralized **data base** management systems
- L12 ANSWER 17 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Using the Microcomputer to Apply **Data-Based** Decision
Rules for Assisting in the **Selection** of Instructional
Strategies for the Handicapped
- L12 ANSWER 18 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Storage **structures** & **access** methods in relational
data base management system INGRES.
- L12 ANSWER 19 OF 19 CONFSCI COPYRIGHT 2005 CSA on STN
TI Interactive **structure searching** using several
data base

0459843/9 Links

Gale Group Trade & Industry DB

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10459843 **Supplier Number:** 21128861 (THIS IS THE FULL TEXT)

DATABASE UPDATE.(relational database management software) (Technology Information)

Mccormick, John

Government Computer News , v17 , n29 , p63(1)

Sept 7 , 1998

ISSN: 0738-4300

Language: English

Record Type: Fulltext

Word Count: 2295 **Line Count:** 00232

Text:

John McCormick, a free-lance writer and computer consultant, has been working with computers since the early 1960s.

Manufacturers have successfully tamed relational database management systems, developing more flexible, more specific storage and retrieval methods

In recent years, many database management system vendors struggled to move their products from a relational to an object-oriented model. Now the dust has settled a bit.

Most databases described as O-O actually are what end users consider O-O, but this hasn't always been true. For a while, any remote link to object-orientation, including relational DBMSes created in an O-O language, were categorized as O-O.

Hide and seek

The basic difference among RDBMSes, non-relational DBMSes and O-O DBMSes, or ODBMSes, is the way they store information and how you retrieve it.

An ODBMS stores data as persistent objects defined by classes. Objects are not just data elements but include information describing how they relate to other elements. The way an RDBMS stores and processes data depends on the field in which the data is placed.

Before you decide to take your department's database resources and leap aboard the O-O bandwagon, remember that although O-O might make it easier for users to retrieve information, the O-O database model imposes some restrictions.

Chief among such restrictions is that, even more than with an RDBMS, to implement an O-O database system successfully you must anticipate every type of search that will ever be done on the data. Searching outside

predefined categories is sometimes possible, but performance degrades markedly.

Unlike most databases, to achieve maximum performance during the design phase of an O-O database, you must predefine relationships among all fields. Data retrieval will be easier but you will only be able to retrieve data based on the predefined relationships.

New and old

ODBMSes let you create new data types that consist of the conventional attributes found in relational models as well as built-in functions and methods.

The technology also supplies significant performance gains by letting you store objects on the server. Pure O-O databases are an appealing alternative for applications that require video or other specialized content.

Standards such as the Object Data Management Group's ODMG-93 will help regulate the technology, but don't look for industrywide adherence to one universal standard.

Computer Associates International Inc., for example, has developed its Jasmine O-O database using a proprietary language.

Despite recent advances in O-O database technology and standards, it's unlikely that the relational database will disappear any time soon.

Although O-O databases can offer a significant performance edge over RDBMSes when queries are known beforehand, the methods used to improve performance in relational databases are better known, and RDBMS vendors have a big head start on their ODBMS rivals.

On one side of the corporate database battle lines is the tried-and-true RDBMS, used for decades by government and business; on the other are new O-O database products from vendors such as Computer Associates, Objectivity Inc. and Poet Software Corp. Sybase Inc., long known as a leader in relational technology, has hitched its wagon to the O-O star, too.

Vendors of conventional RDBMSes will try to stave off the rush to buy O-O products by adding object capabilities to RDBMS products. Such hybrid approaches maintain backward compatibility with the relational server model, and take advantage of its robustness and tremendous installed-user base. At the same time, they let programmers create custom data types.

Although the approach won't please O-O purists, look for the hybrids to gain ground as a pragmatic alternative for the enormous installed RDBMS user base.

A good mix of the disparate technologies is shown in the model adopted by such vendors as Microsoft Corp. and Oracle Corp. The model has the ability to translate an O-O world into the relational model on the back end.

Do it again

An example of the free-form or nonrelational DBMS is a concordance or full-text database in which every word in the data is preindexed. This lets you search for individual words or combinations of words that meet certain criteria, such as "salary" within two words of "base."

A free-form DBMS is relatively fast and very flexible but requires periodic reindexing when new information is added.

An even more basic example consists of a text file you can search using any word processor's search function. It limits the ways you can combine terms in searches but, as long as the files aren't too large, it's easy to build as it requires no predefinition of categories and no

preprocessing.

A good example would be a list of all the people you contact, with their names, agency or company affiliations, and telephone numbers.

As you can enter any sort of text and numeric data in any format, this is, by far, the most versatile nonmultimedia database you can build. And, if all you want to do is identify a person or phone number, or locate a possible contact, you can build and use your database with no added investment.

But the problems are obvious. Such databases must be relatively small, and they provide no way to produce complex reports or do sophisticated searches.

To get the added functionality, you must move up to an RDBMS. The more sophisticated software lets you define specific data fields or classes of information.

Ideally suited to an RDBMS is data such as that in payroll records. Each record contains identical categories, or fields. Fields in a payroll record might include, for example, first name, last name, base salary and street address.

In creating an RDBMS, you must anticipate the sort of information you will need to store, often predefining permissible field contents such as all numeric or alphanumeric.

Data is then arranged in rows using indexed fields, and the query engine joins tables of data based on user-selected key fields.

The more sophisticated RDBMSes use Structured Query Language as the basis for creating a query, that is, the passing of a request for specific information from a user to a database engine.

Old standby

RDBMSes have been around for decades, are well-understood and perform well for most conventional data. Key vendors of RDBMSes are Microsoft, Oracle, and Sybase.

Where RDBMSes begin to falter is in dealing with massive amounts of data. As long as queries are designed into the system, the O-O paradigm can be much faster. Whereas in an RDBMS you must define and restrict data characteristics, in an O-O database you must predefine relationships between data. The kinds of data you can store are more flexibly defined, but the permissible queries are more restricted.

In an O-O database, data is represented not in fields grouped into records but as objects. An object is closely related to a record in an RDBMS but goes beyond storing data to include its possible relationships to other objects. Pointers show relationships between various objects.

RDBMSes shine in an as yet unexplored area of database storage-multimedia. But O-O databases shine more brightly.

The O-O paradigm lets you more easily deal with multimedia data and yields significant performance improvements when handling large databases if the queries being made were anticipated during database construction and relationships were built in.

New digs

Often, this kind of predefined query is easy to develop, but problems may come when new needs are discovered and you want to process the data in new ways, as with data mining, for example.

Key vendors of true O-O databases include Computer Associates, Objectivity and Poet Software. Sybase's future development path seems to leads to O-O.

Hybrid ORDBMSes are gaining favor because they retain the vital

backward-coin-patibility with DBMSes that have been used for decades, while at the same time, programmers can build flexible new custom data types that can handle data not usually found in RDBMSes, such as multimedia information.

Front and back

Microsoft's Object Linking and Embedding database technology, for example, uses objects on the front end that map to data stored on an SQL server at the back end.

O-O and the somewhat less radical hybrid ORDBMSes are important developments, but year 2000-enforced budget restraints combined with the lack of multimedia requirements in many agencies give conventional RDBMSes an edge.

In the future, enterprise databases will be able to mix and match data as never before, thanks to the interoperability of Java running on Common Object Request Broker Architecture and Distributed Component Object Model.

The technology is gaining a firm foothold today. By 2001, a database manager will have no trouble thinking in terms of distributed and parallel computing. More Web servers will get data from multiple sources on the back end, either through mainframes or RDBMS or O-O databases.

It's likely to be 2001 and not 2000 because, with the magnitude of year 2000 problems facing most agencies over the next year and a half, the only big database projects likely to be undertaken are those related to testing and fixing year 2000 glitches.

Fixing the code may mean replacing software, but that doesn't end the work. You not only must port legacy data and retrain users, you also must test to ensure that the year 2000-ready database you're buying really is year 2000-ready.

At this point in the year 2000 crisis, it's too late to buy software that comes merely with vendor promises of future year 2000 readiness.

In a case of everything old is new again, Unix databases-specifically the open source code Linux version-are of rising importance.

You can buy the inexpensive OpenLinux from Caldera Inc. of Orem, Utah, in a commercial version or download Linux as freeware.

Linux freeware isn't some Mickey Mouse game software; it is a powerful competitor to full-blown Unix. Oracle, Informix Software Inc. and Computer Associates are porting versions of their software to this platform.

But no database decision is made in a vacuum. Most government agencies have massive legacy RDBMSes, and, although offices that need multimedia may want to consider O-O database technology, most federal agencies will continue to rely on RDBMSes for decades to come.

What's what in relational and object-oriented DBMSes

	RDBMS	ODBMS
Data storage	Conventional rows and columns of strictly defined fields where query tools join tables with specified key field	Pointers represent links between objects
Search language	Structured Query Language	Usually an OMG-93.compliant language, often non-standard and proprietary
Strongest feature	Large installed base with many experts and	More flexible for multimedia and better performance for

extensive track record same users

Here's a database of buying tips

- * If you're fortunate enough to have few year 2000 problems and can make a major database acquisition, don't buy for tomorrow; plan for the kinds of data you'll need to store and retrieve in decades to come.

- * Check, double-check and triple-check for year 2000 compatibility and legacy data support.

- * Most agencies are struggling to make year 2000 date code fixes and should stick to the some type and brand of database they're already using.

- * If you'll store still images, video and other multimedia data in a new database, look to an object-oriented DBMS for the best performance.

- * A massive collection of legacy data probably rules out a pure ORDBMS but may lend itself to a hybrid ORDBMS.

- * Consider both maintaining a legacy RDBMS for old data and building a separate new 0-0 system for multimedia, It may be the only practical way to begin a changeover, especially if few users need the 0-0 system today.

- * Don't underestimate the problems you'll encounter in moving legacy data to a new database, even if it's just a newer RDBMS.

- * 0-0 is still a new technology and the number of people who can tweak it into peak performance is tiny compared with the army of programmers with decades of experience in optimizing RDBMSes.

- * Data warehousing and data mining are not 0.0 functions; they're new ways of handling RDBMS data.

- * SQL is widely accepted as a standard query language for RDBMSes despite the way vendors add nonstandard enhancements.

- * 0-0 query languages are far less standardized.

For low-end requirements, one of these 12 management systems can do the job

Vendor	Product	Type	Platform
ACI US Inc. 20833 Stevens Creek Blvd. Cupertino, Calif. 95014 408-252-4444 http://www.acius.com	4th Dimension	RDBMS	Mac
	4th Dimension	RDBMS	Win95
	4th Dimension	RDBMS	NT
Alpha Software Inc. 165 Middlesex Turnpike Burlington, Mass. 01803 617-229-2924 http://www.alphasoftware.com	Alpha Five	RDBMS	Win95
	Alpha Four	RDBMS	MS-DOS
AskSam Systems Inc. 119 S. Washington St. Perry, Fl. 32347 904-548-6590 http://www.asksam.com	AskSam	Free-form	All Windows
Corel Corp. 1600 Caning Ave. Ottawa, Ont., Can. K1Z 8R7 613-728-8200 http://www.corel.com	Paradox	RDBMS	All Windows

Eazybase Inc. 90 Eglinton Ave. E. Toronto, Ont., Can. M4P 2Y3 418-482-3037 http://www.eazenet.com	Instabase	Non-RDBMS Win95, NT
FileMaker Inc. 5201 Patrick Henry Drive Santa Clara, Calif. 95052 408-987-7000 http://www.clariscom	FileMaker Pro RDBMS	Mac, all Windows
Lotus Development Corp. 55 Cambridge Parkway Cambridge, Mass. 02142 617-577-8500 http://www.lotus.com	Approach	RDBMS All Windows
Microsoft Corp 1 Microsoft Way Redmond, Wash. 98052 425-882-8080 http://www.microsoft.com	Access	0-RDBMS All Windows
	Visual FoxPro ODBMS	Win95, NT
Vendor ACI US Inc. 20833 Stevens Creek Blvd. Cupertino, Calif. 95014 408-252-4444 http://www.acius.com	Notes Generates database code for Mac, Win95 and NT; offers strong Web support Same	
Alpha Software Inc. 165 Middlesex Turnpike Burlington, Mass. 01803 617-229-2924 http://www.alphasoftware.com	Same Uses extended Xbasic language, is easy for novices but has powerfullfeateres Same, but for older PCs	
AskSam Systems Inc. 119 S. Washington St. Perry, FIn. 32347 904-548-6590 http://www.asksam.com	Has no fields, just full-text indexing and search; supports ASCII, Eudora E-mail and HTML; comes with 18 templates to get you started	
Corel Corp. 1600 Caning Ave. Ottawa, Ont., Can. K1Z 8R7 613-728-8200 hftp://www.corel.com	Is san SQL-compatible RDBMS	
Eazybase Inc. 90 Eglinton Ave. E.	Has 15-field limit and 1. BMP image field, is perfect for small collection database	

Toronto, Ont., Can. M4P 2Y3
418-482-3037

<http://www.eazenet.com>

FileMaker Inc.

Makes Web publishing easy

5201 Patrick Henry Drive
Santa Clara, Calif. 95052
408-987-7000

<http://www.clariscom>

Lotus Development Corp.

Runs on low-end PCs

55 Cambridge Parkway
Cambridge, Mass. 02142
617-577-8500

<http://www.lotus.com>

Microsoft Corp

Integrates with Office, produces
HTML pages
and strong hyperlinks

1 Microsoft Way
Redmond, Wash. 98052
425-882-8080

Is object-oriented and developed
for single
users

<http://www.microsoft.com>

Vendor

Price

ACI US Inc.

\$299

20833 Stevens Creek Blvd.
Cupertino, Calif. 95014

408-252-4444

\$1,486

<http://www.acius.com>

for 10
users

\$270

Alpha Software Inc.

\$100

165 Middlesex Turnpike
Burlington, Mass. 01803
617-229-2924

\$110

<http://www.alphasoftware.com>

AskSam Systems Inc.

\$140

119 S. Washington St.
Perry, FL 32347

904-548-6590

<http://www.asksam.com>

Corel Corp.

\$129

1600 Caning Ave.

Ottawa, Ont., Can. K1Z 8R7
613-728-8200

<http://www.corel.com>

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418-482-3037

<http://www.eazenet.com>

FileMaker Inc.

\$199

5201 Patrick Henry Drive
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408-987-7000

<http://www.clariscom>

Lotus Development Corp.	\$105
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Cambridge, Mass. 02142	
617-577-8500	
http://www.lotus.com	
Microsoft Corp	\$339
1 Microsoft Way	
Redmond, Wash. 98052	
425-882-8080	\$499
http://www.microsoft.com	

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Industry Codes/Names: BUSN Any type of business; CMPT Computers and Office Automation; GOVT Government and Law

Descriptors: Relational databases--Standards; Database management systems--Computer programs; Computer software industry--Standards

Product/Industry Names: 7372421 (DBMS)

Product/Industry Names: 7372 Prepackaged software

File Segment: CD File 275

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Business Wire

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QUINTUS : Quintus announces beta for for CustomerQ 2.3; provides integrated solutions for customer service automation; new tools provide cross-departmental solutions

March 06, 1995

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MOUNTAIN VIEW, Calif.--(BUSINESS WIRE)--March 6, 1995--Quintus Corporation, a leading supplier of enterprise-wide customer service automation software, today announced that beta copies of a new version of its popular CustomerQ support automation software have been distributed to key customers and test sites.

CustomerQ version 2.3 will offer new cross-departmental solutions with HelpQ, CallQ and SalesQ application templates. CustomerQ also enables true multi-site operations via InsynQ selective Distributed Data Access (DDA).

Thousands of customer service and technical support agents depend on the CustomerQ management solution to help them achieve total customer satisfaction. Version 2.3 will provide these users with application development tools allowing modification of applications for specific needs, as well as a family of cooperating applications--HelpQ, CallQ and SalesQ. These new tools allow cross-departmental solutions to customer service problems. All three applications feature a high-end Microsoft Windows interface and a World Wide Web interface for remote and occasional users.

"Using CustomerQ, service and support organizations can provide their customers with optimum levels of service, solve problems quickly and effectively--and they can share this information with other sites and departments," said Dave Rahn, vice president of marketing for Quintus. "Unlike other service automation solutions, CustomerQ 2.3 is readily adapted to specific needs. Layout and fields can be modified easily by those with no programming experience, and entirely new data tables and business processes can be modeled with basic relational database skills. We are pleased to be able to provide the features our customers have specifically requested."

HelpQ, CallQ and SalesQ: New Cross-Departmental Solutions

Using CustomerQ 2.3 Dynamic Data Exchange (DDE), support personnel can have the industry's most powerful case-based reasoning tools and full text support-desk encyclopedias at their fingertips. This version of CustomerQ has been refined to enable users to resolve more customer problems in that first call.

HelpQ provides multiple views into the underlying data such as site and customer information, as well as providing CustomerQ's powerful problem resolution technology. Using HelpQ, a help desk analyst can select a problem template, and HelpQ fills in key data fields using default values and provides a pop-up with relevant diagnostic questions. HelpQ can then search the solution database to locate the appropriate problem resolution.

CallQ is a variant of HelpQ that is optimized for external customer support by providing more detailed customer information and an embedded defect tracking focus for communication with an engineering group. Additionally, CallQ provides tools to search free text documentation and fax documents to end-users, as well as tracking warranty information and product problems to specific components and release levels.

SalesQ, an opportunity management system that shares data with the help desk, is designed for organizations with a complex sales cycle that often interacts with customer service. Now sales persons can, for instance, review the service record of a specific prospect or customer, or technical support can alert a sales person that their customer is reporting a problem.

CustomerQ version 2.3 is expected to be available during the third quarter of 1995.

Enterprise-Wide Service Solution

Whether a company has departments located in another building or another country, CustomerQ 2.3 can disseminate vital customer data throughout the organization. Using version 2.3, a salesperson can review customer service records, the help desk can communicate with engineering and international service departments can share information. Up to 15 CustomerQ installations, each with its own data server, can be linked with InSynq--a Quintus utility for selective data replication--and CustomerQ 2.3. The installations can be located anywhere in the world and configured to support up to 250 clients.

Founded in 1984, Quintus is a wholly owned subsidiary of Intergraph Corporation (NASDAQ symbol INGR), the world's leading provider of solutions for enterprise-wide computer graphics and technical information management. Quintus Corporation is a leading supplier of enterprise-wide customer service automation systems for a broad range of industries, including biotechnology, electronics, financial, government, hospitality, oil and gas, pharmaceuticals, retail, software and transportation.

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KEYWORD: CALIFORNIA

INDUSTRY KEYWORD: COMPUTERS/ELECTRONICS COMED PRODUCT

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A guide to data integrity rules. (PC Tech: Corporate Developer) (Column) (Tutorial)

Ricciardi, Sal

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Abstract: There are five types of data integrity rules in relational databases including entity, referential, column, domain and user-defined. The entity integrity rule mandates that all rows be assigned an identifier or primary-key value. Databases that support primary keys include Borland's Paradox for Windows and Microsoft's Access. The referential integrity rule requires that databases reject updates or deletions that change or eliminate the target of a reference. Access includes an option for enforcing referential integrity. Column integrity rules mandate that certain values be maintained for a particular column. Both Paradox for Windows and Access support column-based validity checks. Domain integrity rules are similar to those used for column integrity, but relate to the domain level. Few applications currently support domain integrity. User-defined integrity rules involve constraints the user establishes for the database. Such constraints are not bound to a particular table or column and often are necessary to support complex business rules.

Text:

The content of a database often forms the basis on which critical business decisions are made. To ensure that the database remains correct and complete at all times, you must establish and enforce the appropriate data integrity rules. As I discussed in the last installment of Corporate Developer (June 28, 1994), if you're fortunate enough to be using a database management system that supports declarative integrity, you need only declare the rules to the database, and it will then automatically enforce them globally. Otherwise, you must write your own procedures to enforce the integrity rules.

In this column, I'll review the different kinds of data integrity rules. The relational model defines five types of integrity: entity, referential, column, domain, and user-defined. I'll also discuss here a sixth type, primary-key integrity. Ideally, your database management system should support and enforce each of these types.

THE ENTITY INTEGRITY RULE

Recall that a primary key is the column (or combination of columns) you choose to provide a unique identification for each row in a table. For example, you might use a customer ID to distinguish customers or a part number to identify parts. Under this approach, it makes sense to require

that all customers have a customer ID or that all parts have a part number. Without such a fingerprint, the database loses its primary means of identifying a row.

The entity integrity rule simply codifies this common-sense principle: A row must always have a primary-key value. You cannot add a new row that lacks a primary-key value, and you cannot change an existing row if that would result in the loss of its primary-key value. If you attempt to add a new customer without including a customer ID, you violate the entity integrity rule and the database must reject the row. When you define a column as the primary key, you are actually implying that the database should enforce entity integrity. Databases that support primary keys (Microsoft Access and Paradox for Windows, for example) automatically enforce entity integrity; it is assumed by the very action of calling something a primary key.

A number of products require that you add a nonnull constraint to the column definition of the primary key to activate entity integrity support. The nonnull constraint simply means, "Don't permit any row to omit a value in this column." Still other products (some Xbase packages, for example) provide no support for primary keys or entity integrity. Such products require you to write the code that enforces the entity integrity rule.

THE PRIMARY-KEY INTEGRITY RULE

Primary-key integrity demands that the value of the key be unique. After all, you can't identify a row uniquely if its primary-key value is not distinct from all others. Since it is really part of the definition of a primary key, products that support a primary-key type enforce this rule automatically. For example, Microsoft Access and Paradox for Windows automatically prevent you from duplicating a primary-key value.

Other database products require you to add a unique constraint to the primary-key column definition to ensure enforcement of the rule. Database management systems that follow ANSI SQL-89, for example, require you to add both the unique constraint for primary-key integrity and the nonnull constraint for entity integrity. If your product supports ANSI SQL-92, on the other hand, you need only to declare the column as a primary key; support for entity and primary-key integrity is then assumed. Again, some products (some Xbase packages) still provide no support for primary keys, so you must write code to enforce the primary-key integrity rule.

THE REFERENTIAL INTEGRITY RULE

When you design a database, you divide your information into many subject-based tables to minimize data redundancy. You then provide your database management system with the means to connect the data back together again by placing common columns into related tables. To represent a one-to-many relationship, for example, take the primary key from the one table and add it to the many table as an additional column. To reconnect the data, the system then takes the value in the many table and looks up the corresponding value in the one table. In this way, the values in the many table always reference the corresponding values in the one table. (For a more complete discussion of table relationships, see "Database Design: Redundancy and Normalization" in the Corporate Developer of January 25, 1994.)

You can imagine ways in which the primary-key column in the one table could become out of sync with its references. Suppose, for example, that your database has a one-to-many relationship between customers and orders and that you want to delete a customer. If that customer has order records in the Orders table, those records will become orphans when you delete the

customer record. They will have a customer ID that is no longer valid, since the row it references no longer exists. The database will have lost its referential integrity.

Keeping such references locked in sync is what referential integrity is all about. The referential integrity rule says that what you reference must exist and that your database management system should make sure this condition always remains true. How, then, should the rule be enforced?

The most obvious solution is to reject any operation that would violate referential integrity. Under this approach, the database would reject both updates that change the target of a reference and deletions that remove the target of a reference. Microsoft Access uses this technique by default (once you choose to enforce referential integrity), as shown in Figure 1.

In this case, the database restricts all updates and deletions to those that would not violate the rule. In practice, however, a few additional alternatives make sense. You might have a perfectly valid need to change the customer ID for a customer who has orders in the Orders table, for example. By default, the database management system should reject such a change as a referential integrity violation. In such a case, to implement the change, you would have to copy the customer row to a new row with the new ID, change all the related order records to the new ID, and then delete the old customer row, which would no longer have any related order records. Such an operation is not only cumbersome, but it also leaves the database in a temporarily inconsistent state. That is, for a short time there are two customer records for the same customer.

What you really need is for the system to update all the required tables automatically as part of a single operation to keep them in sync with your changes. In other words, the database management system should support a cascade option.

THE CASCADE OPTION

When a database management system supports the cascade option, it usually implements two independent options: one for updates and one for deletes. When you select either option, the system automatically cascades your changes to all of your tables, thus keeping them synchronized. For example, when you choose the cascade-update option and then update a primary key, the system will propagate that change to all the columns that reference the primary key. Similarly, when you choose cascade delete and then delete a customer record, the system deletes all related order records.

REFERENTIAL ACTIONS

Cascade update and cascade delete fall under the general heading of referential actions--that is, things that can happen in response to an attempted violation of referential integrity. Depending on your choice of database management product, other alternatives may be available. For example, when you delete the target of a reference, you might want to set the references to a specific default value (a default supplier, for instance). Or you might want to blank out (set to null) the references to indicate that something is missing. Databases that comply with ANSI SQL-92 will support both of these options together with cascade update and cascade delete.

SUPPORT VARIES

Support for referential integrity and referential actions varies greatly among database products. As of this writing, Microsoft Access enforces referential integrity and offers both the cascade-delete and the

cascade-update options (see Figure 2). Paradox for Windows, on the other hand, supports referential integrity and cascade update but does not support cascade delete. Products such as dBASE and Microsoft FoxPro, which offer only procedural integrity, require that you write code to implement referential integrity. SQL Server, Version 4.21, supports referential integrity but requires that you use triggers to implement the cascade update and cascade delete options. The server invokes the user-written trigger procedure automatically in response to certain actions, such as an attempt to update or delete. The obvious disadvantage of using triggers to implement referential actions is that you must know how to write the procedure. That is, you have to know how to accomplish cascade update and cascade delete using the features available in your particular product. (A future version of SQL Server will likely include simple declarative support for cascade update and delete.)

Triggers do have advantages, however. They give you flexibility when creating custom integrity rules that go beyond those that can be specified declaratively. And since they are stored with the database and executed automatically by the system, triggers do not share the traditional procedural disadvantage of being easily bypassed and of having to be copied all over the place.

The integrity rules I've discussed so far concern the structural framework of a relational database--that is, the primary keys and the columns that reference them. Beyond these rules are the business rules unique to your database.

COLUMN INTEGRITY RULES

Column integrity rules are used to maintain the values in a particular column. For example, you might want to limit the values in a column either to a certain set of permissible values or to a preset range of values. Most products provide at least some support for column integrity, usually by allowing you to define the rules as part of the column definition. Here, too, there is plenty of variation in the way different vendors implement the feature.

As shown in Figure 3, Paradox for Windows supports column-based validity checks that let you test whether the value in a column is within a certain range. You can also assign a default value if none is supplied or you can avoid the use of a default value altogether by marking a column as required, meaning that a value must always be supplied.

Microsoft Access supports the default and required options and also lets you define a custom validation-rule expression that will limit acceptable values to those that meet a certain requirement. You can use this validation rule, for example, to require that a value come from a specified list (for instance, red, white, or blue).

Products that comply with ANSI SQL-92 support a very flexible feature known as a check constraint, which lets you create a wide range of rules for automatically enforcing column integrity.

DOMAIN INTEGRITY RULES

A domain is a named object that represents a set of values and certain characteristics that describe those values. For example, you could specify a basic data type, such as character or numeric, and include any integrity rules that are to apply to the domain. Columns would then draw their values from their respective domains.

For example, you could create a domain that represents all the valid state names. You might then create columns based on that domain. The columns would inherit the characteristics of the domain, such as the basic

data type and any integrity rules, and would draw their values from the domain. You could then add column integrity rules to go beyond the rules inherited from the domain definition.

Domain integrity rules, then, are those rules defined in the domain definition and inherited by columns based on that domain. The rules themselves are of the same type and variety as those used for column integrity.

Currently, few products include full support for domains and domain integrity. Products that comply with ANSI SQL-92 will support domain integrity through the check constraint on the CREATE DOMAIN command.

USER-DEFINED INTEGRITY RULES

Any integrity rule other than the types discussed above is classified as a user-defined integrity rule. Often integrity constraints of arbitrary complexity are needed to enforce certain business rules. For example, suppose you need to enforce a complex business rule that involves several tables. A different mechanism would be required to support such standalone rules. For this reason, ANSI SQL-92 supports assertions--standalone check constraints that are not bound to a particular table or column. You can use assertions to create complex rules that enforce restrictions across multiple tables.

With many of today's products, the only way to enforce rules of arbitrary complexity is to write code using the procedural language that comes with the product. Products that support triggers offer you the opportunity to create arbitrary integrity constraints that are centralized

in the database and are invoked automatically. Ideally, then, the database management system you use should be one that provides the maximum declarative support possible and that also supports a trigger mechanism for those rules that simply cannot be specified declaratively.

FURTHER READING

For more information about data integrity and the data integrity rules, I recommend the following:

- * The Relational Model for Database Management, Version 2, by E.F.Codd, Addison-Wesley.
- * An Introduction to Database Systems, Volume I, 5th edition, by C.J. Date, Addison-Wesley.
- * Understanding the New SQL: A Complete Guide, by Jim Melton and Alan R. Simon, Morgan Kaufmann. (This book is especially good for SQL-specific information.)

THE MAILBOX

Send comments, questions, or suggestions to Sal Ricciardi, contributing editor, via MCI Mail (347-7663) or CompuServe (72241,33).

Sal Ricciardi is a contributing editor of PC Magazine and author of the award-winning Running Microsoft Foxpro for Windows and Running Microsoft Foxpro for MS-DOS. Both books are published by Microsoft Press.

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Descriptors: Tutorial; Database Design; Database Application Development Software
SIC Codes: 7372 Prepackaged software

Trade Names: Microsoft Access (Database application development software)--Design and construction; Borland Paradox for Windows (Database application development software)--Design and construction

Operating Platform: Microsoft Windows

File Segment: CD File 275

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ENHANCED WOODSTOCK BUILDING SUPPLIER SOFTWARE: FASTER PROCESSING - MORE FEATURES

News Release , p N/A

Oct 27 , 1993

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ENHANCED WOODSTOCK BUILDING SUPPLIER

SOFTWARE: FASTER PROCESSING - MORE FEATURES

WOODLAND HILLS, CA, October 27, 1993-- The new 6.0 release of Woodstock, specialty software for lumber and building material suppliers, increases performance and adds more functionality and features.

This is the fifth major Woodstock upgrade from REAL Applications, a leading IBM midrange specialist. Woodstock is continually enhanced to support and take advantage of advances in IBM AS/400 systems and added technology.

Significant Woodstock 6.0 improvements and innovations are:
Entry Programs OPTIMIZED!

Code rewritten and streamlined for order, quote and PO modules for optimal performance. All files externally defined.

Database Extensions IMPROVED!

Enhanced master field/file reference structure with all files externally defined. Query-ready column, header, edit codes.

AS/400 Style Windows Intelligent Prompting...ENHANCED!

Extended to all user defined parameters (fields, codes).

User Definable Program Functions EXTENDED!

Capability to call virtually any program from within another program. User control and security access features.

Document-to-Document Copy NEW!

Faster document creation. Copy or duplicate any data from one customer document to another (i.e., quote, invoice).

Order Entry Edit MORE FLEXIBLE!

Change any header fields at any point in the order entry process. Customer Inquiry Module NEW!

Special access and inquiry to all files and documents related to or referencing a specified customer.

Woodstock 6.0 version supports and has a direct interface to the ImageView document management/storage system. REAL Applications started shipping the 6.0 release in early October: upgrades for current Woodstock AS/400 implementations are also available.

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LA 70006. Phone: 504/888-6297.

REAL Applications, Ltd. is the IBM Midrange subsidiary of El Camino Resources, Ltd. It was the No. 1 revenue producing IBM Industry Remarketer (IR) in the U.S. in 1992 and is a Premier Business Partner and AS/400 Managing Industry Remarketer (MIR) distributor. REAL specialist in IBM midrange solutions, including industry-specific applications and system integration.

The parent company, El Camino, and REAL's headquarters are in Wodland Hills, CA. El Camino is a major equipment lessor and a leading IBM mainframe and midrange dealer-trader. The company also provides: applications, communications products, network/system integration, technical support, training and recovery services. El Camino has a national sales network and international operations in Canada, Gernmny, Singapore and the U.K.

WOODSTOCK

Lumber & Building Material Supplier Management System
Woodstock is a proven management information and administration solution for lumber and building suppliers, lumberyards, and home or hardware centers. Modules are fully Integrated and automate these operations and functions and many more:

Wooastock Program Modules:

- Accounts Receivable
- Inventory & Receiving
- Millwork, Repair & Service Job Processing
- Online Cash Register
- Order Entry, Invoicing & Backorders
- Price Quotations
- Purchasing
- Physical Inventory
- Sales Reporting & Analysis
- Sales Tax Reporting

Optional Modules: These REAL financial and accounting modules are fully integrated with the standard Woodstock programs.

- Accounts Payable
- Fixed Assets
- General Ledger
- Payroll

Woodstock is also compatible with the ImageView document imaging system, bareode systems, and radio frequency systems and equipment.

Other Products & Sport Services: REAL is a total "Solution Supplier" and the building supplier's resource for all data processing needs:

- IBM AS/400 Hardware & Software Products
- System Iesign, Installation & Trahnng
- Lease/Purchase Plans (Hardware & Software)
- Networks, Communications & System integration
- Peripherals, Storage & Add-on Equipment
- Software Modifications, Maintenance & Upgrades
- 24 Hour Tech Support Hoffine

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